

16



FIG. 2

SURFACE TOP AND BOTTOM TO BE
SMOOTH AND FREE OF MACHINING
MARKS AND RIDGES.

DRILL TWO (2) HOLES 0.500 DIAMETER.
HOLES WILL OVERLAP

0.175 RADIUS FOUR (4) PLACES

16

1.900

2.100

LOAD CELL

SIDE VIEW

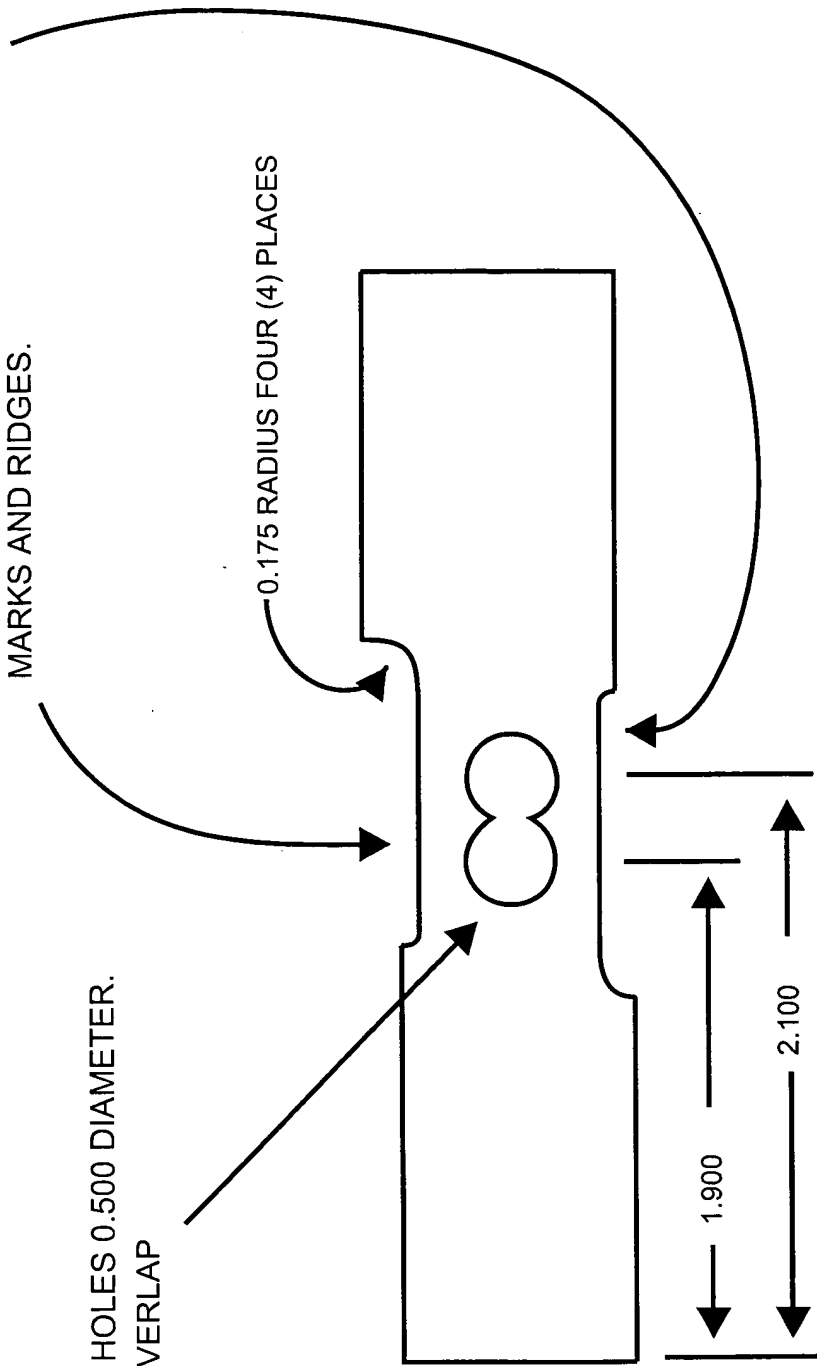
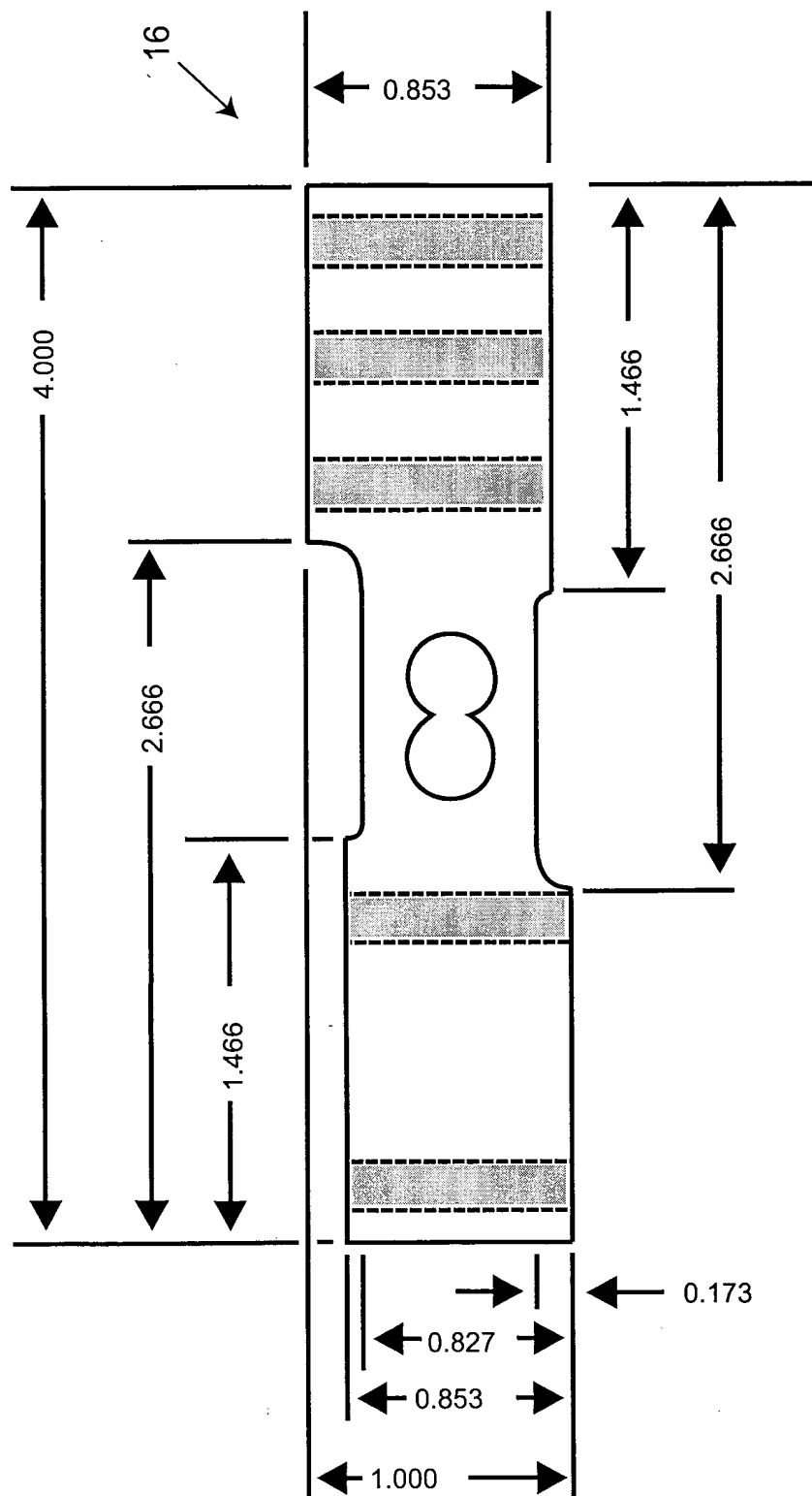


FIG. 3



LOAD CELL
SIDE VIEW

FIG. 4a

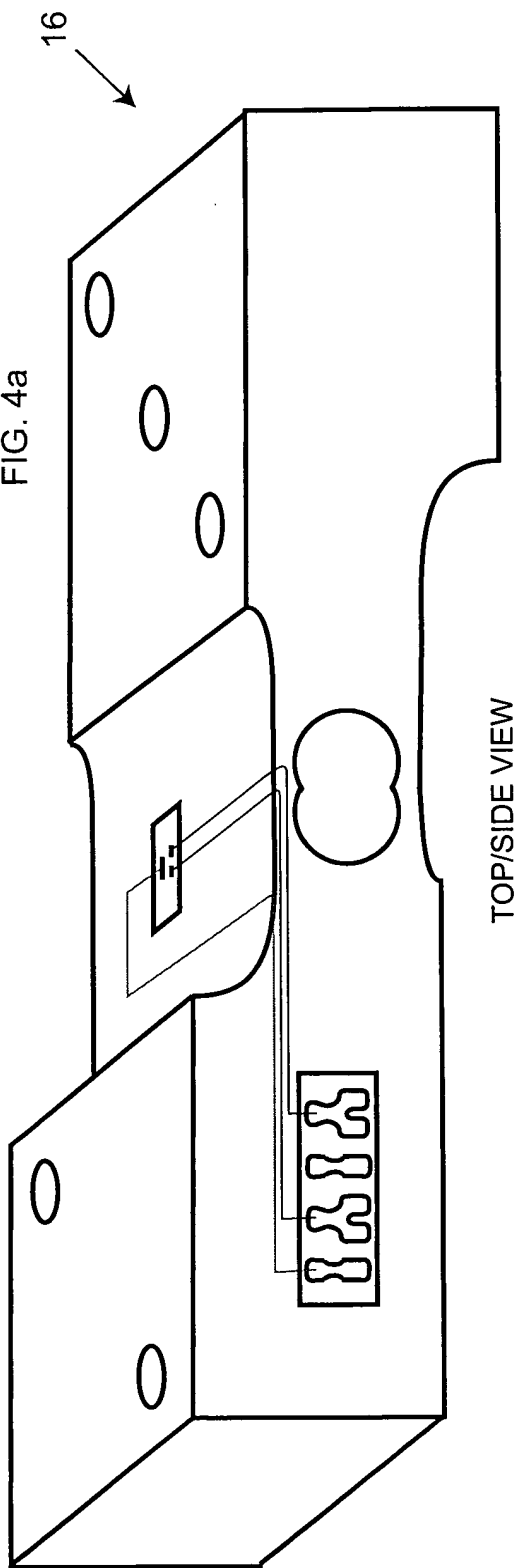


FIG. 4b

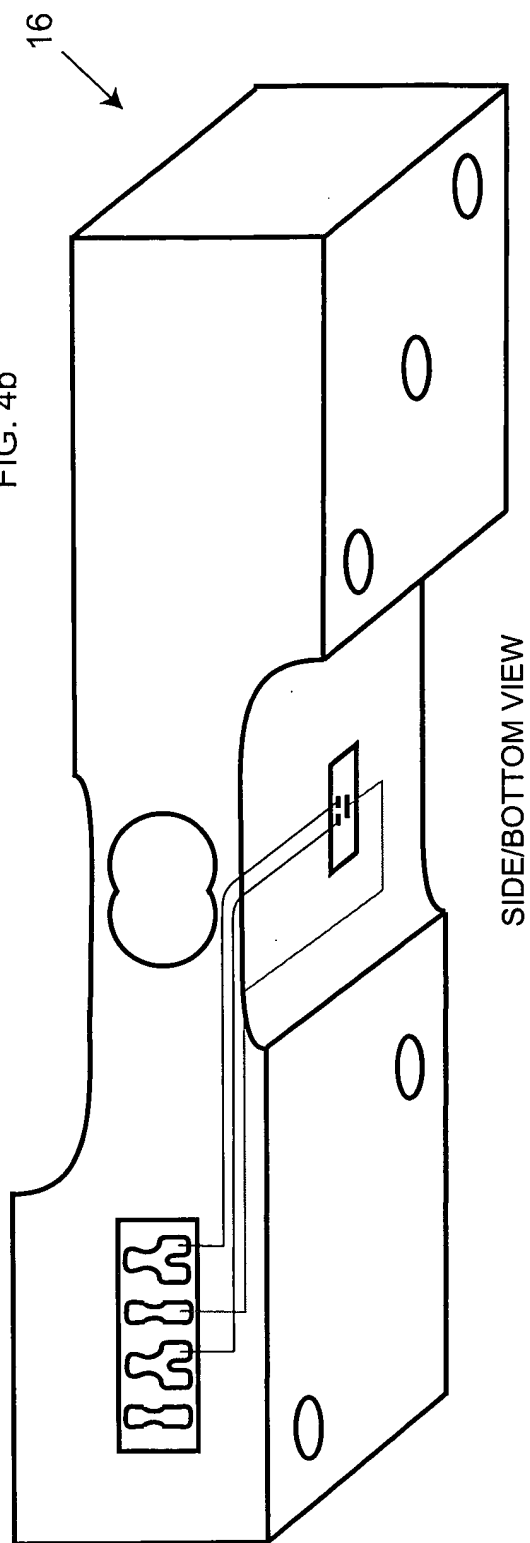
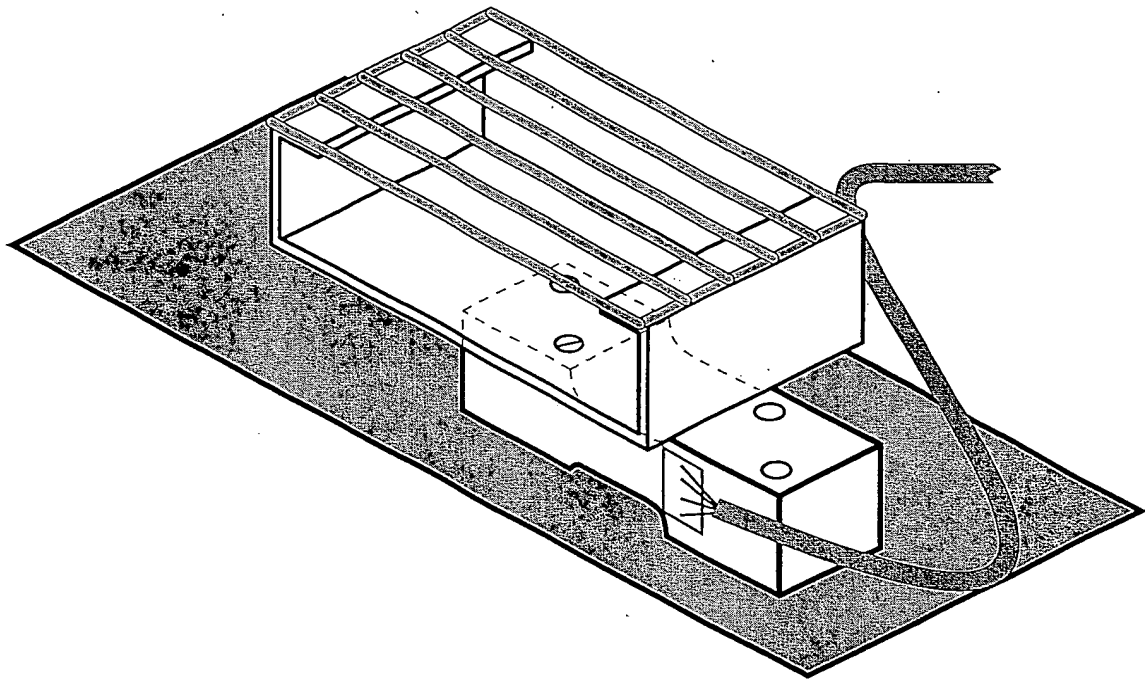
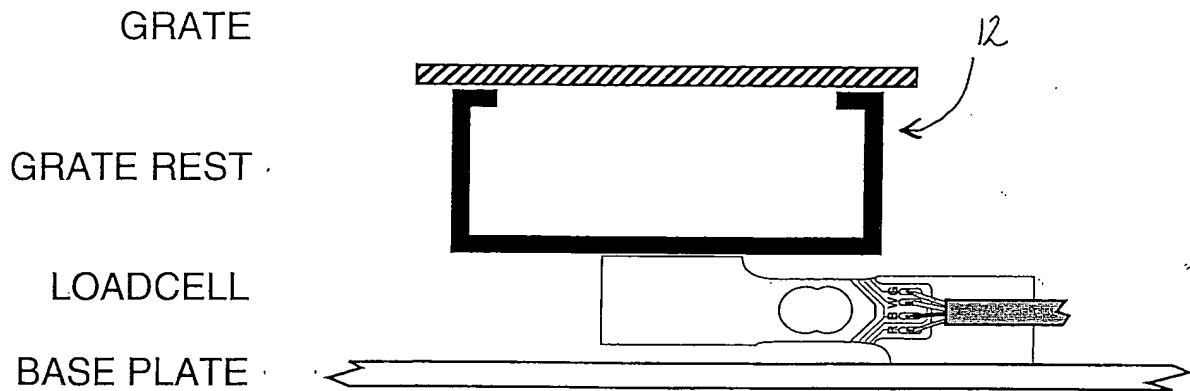
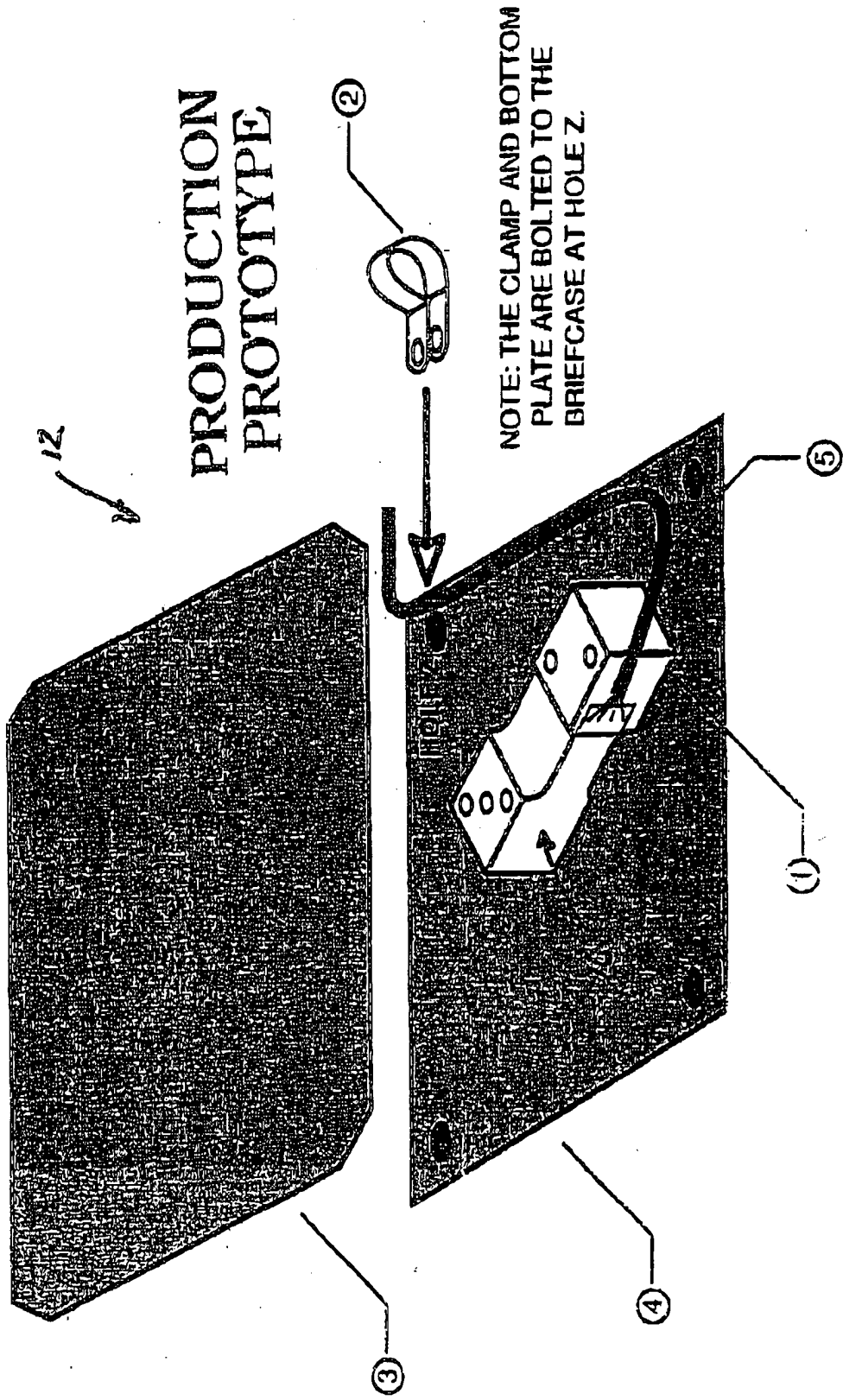


FIG. 5a



BEST AVAILABLE COPY

Fig. 5b



BEST AVAILABLE COPY

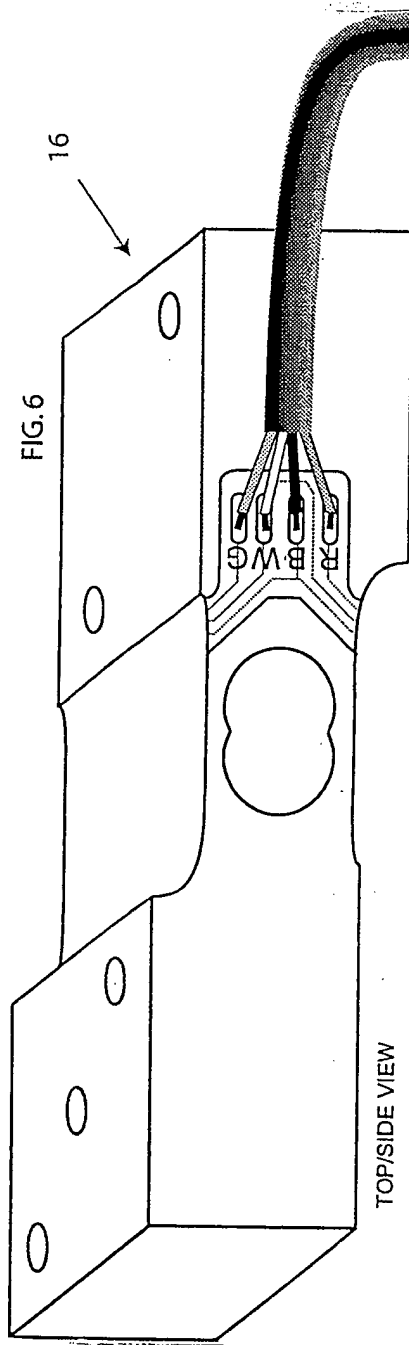
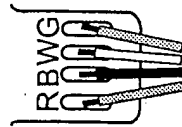
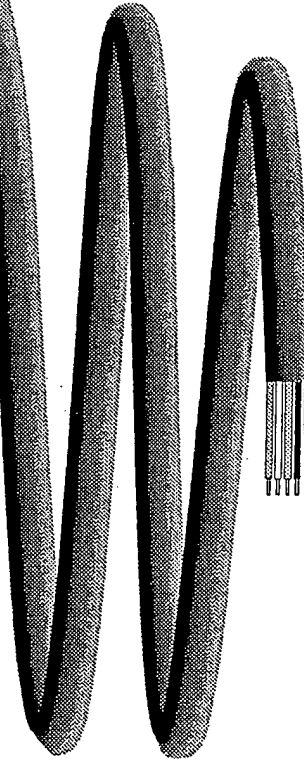


FIG. 6

SOLDER THE 4 CONDUCTOR
WIRE TO THE LOAD CELL
USING THE COLOR CODE GIVEN.



DETAIL:
CABLE CONNECTIONS



TOTAL CABLE LENGTH :
63.25 INCHES

BEST AVAILABLE COPY

FIGURE 7a

Electrical schematic view of the full bridge resistive load cell.

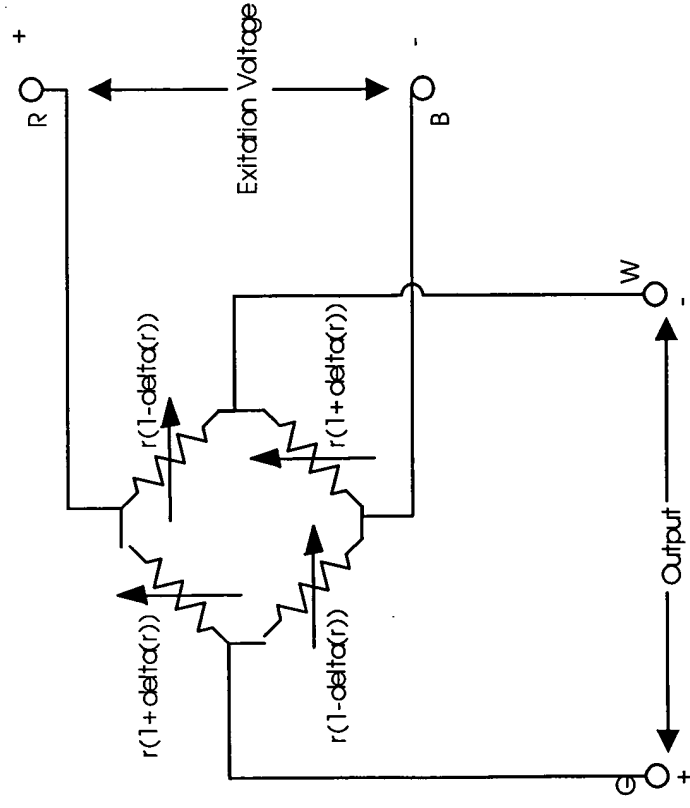
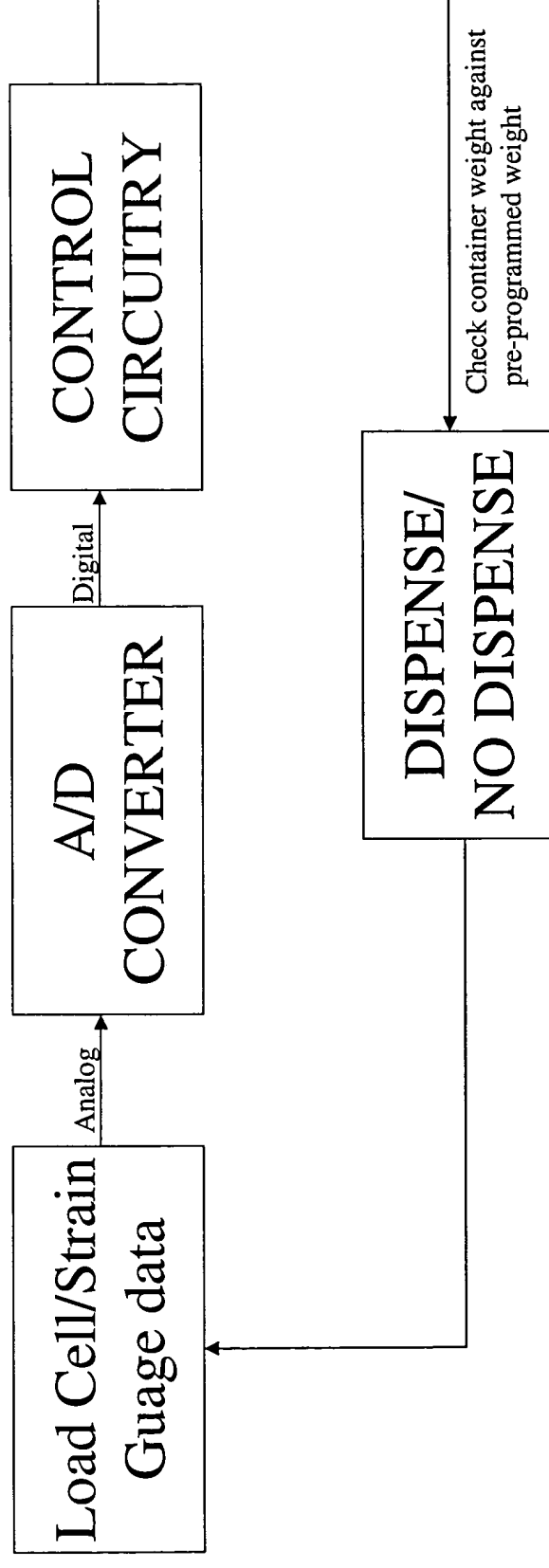


FIGURE 8a

Control Circuitry block diagram.



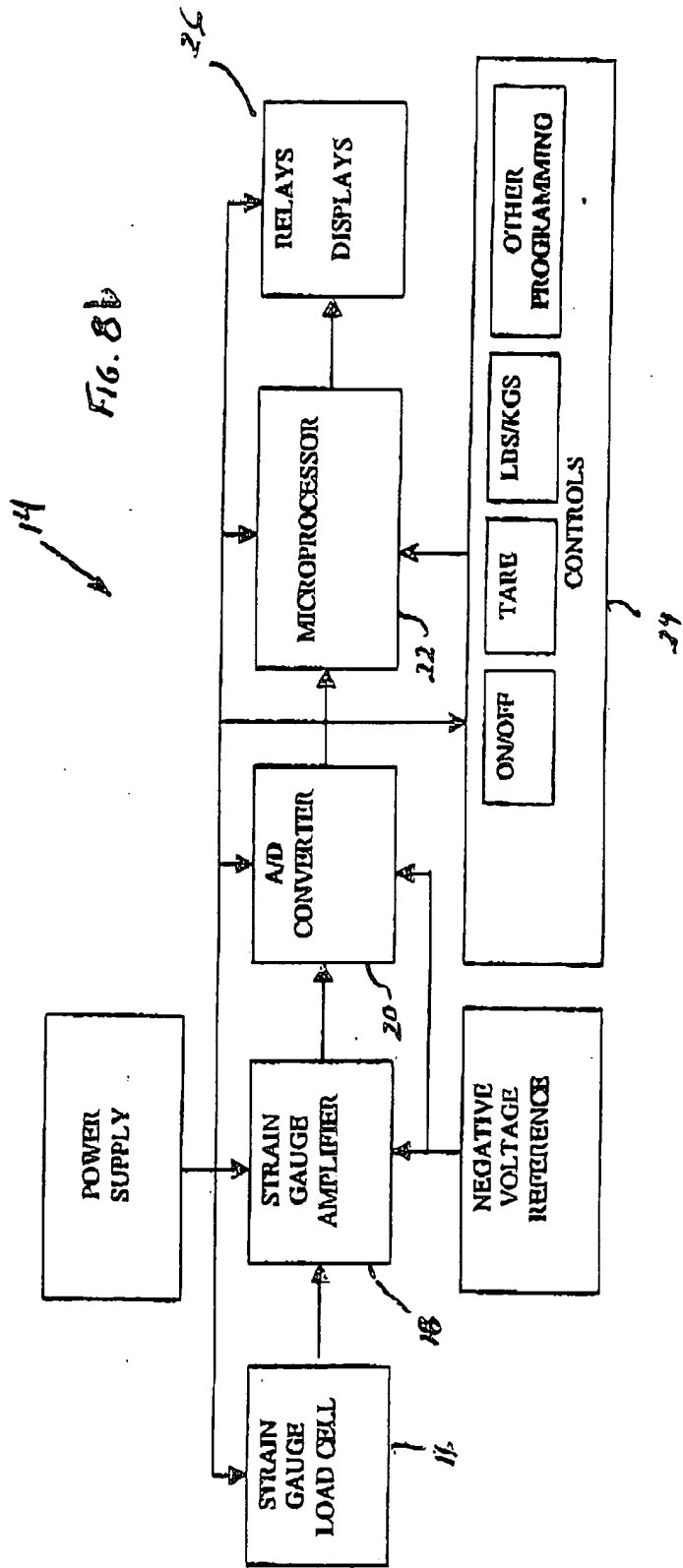
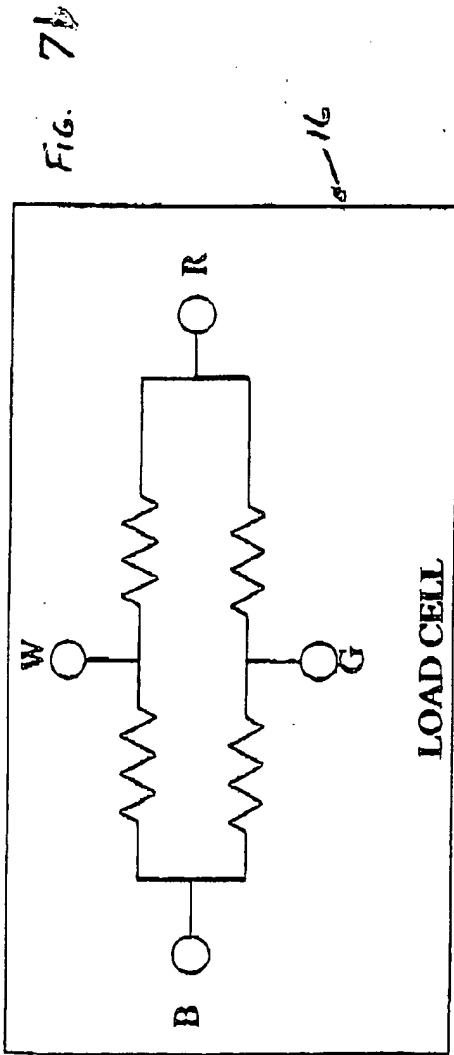


FIG. 9A
FIG. 9B
FIG. 9C
FIG. 9D
FIG. 9E
FIG. 9F
FIG. 9G
FIG. 9H
FIG. 9I
FIG. 9J
FIG. 9K
FIG. 9L
FIG. 9M
FIG. 9N
FIG. 9O
FIG. 9P
FIG. 9Q
FIG. 9R

FIG. 9

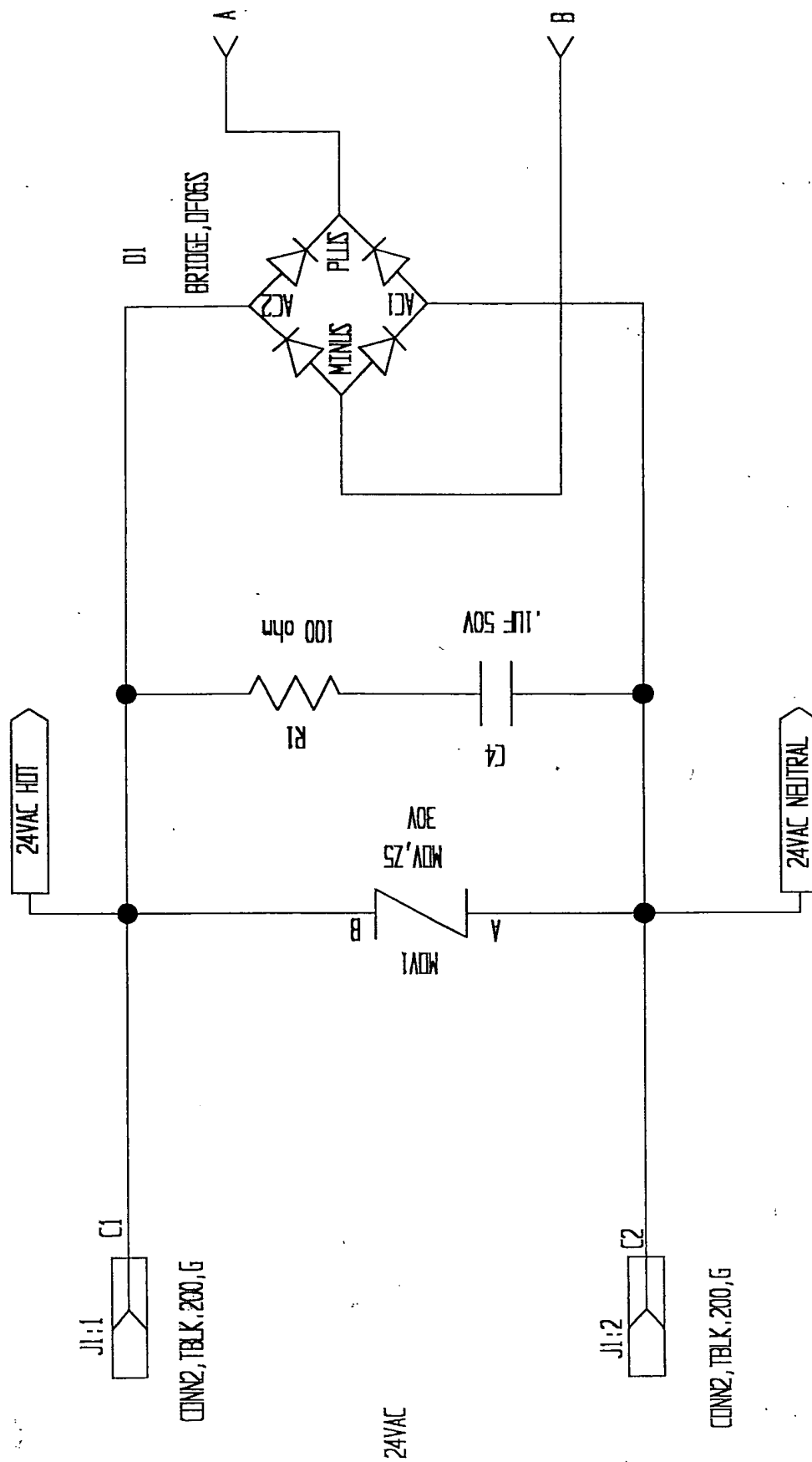


FIG. 9A

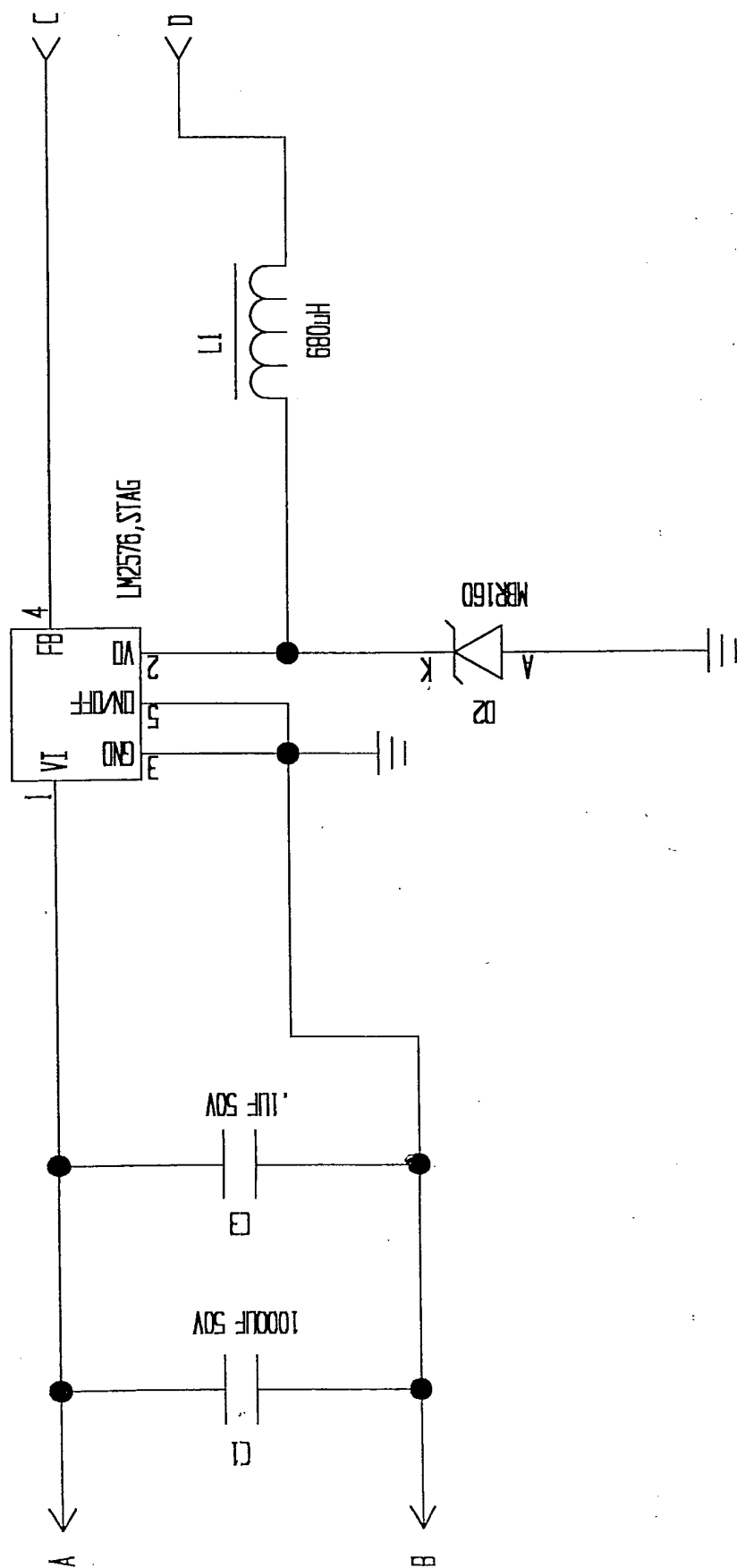


FIG. 9B

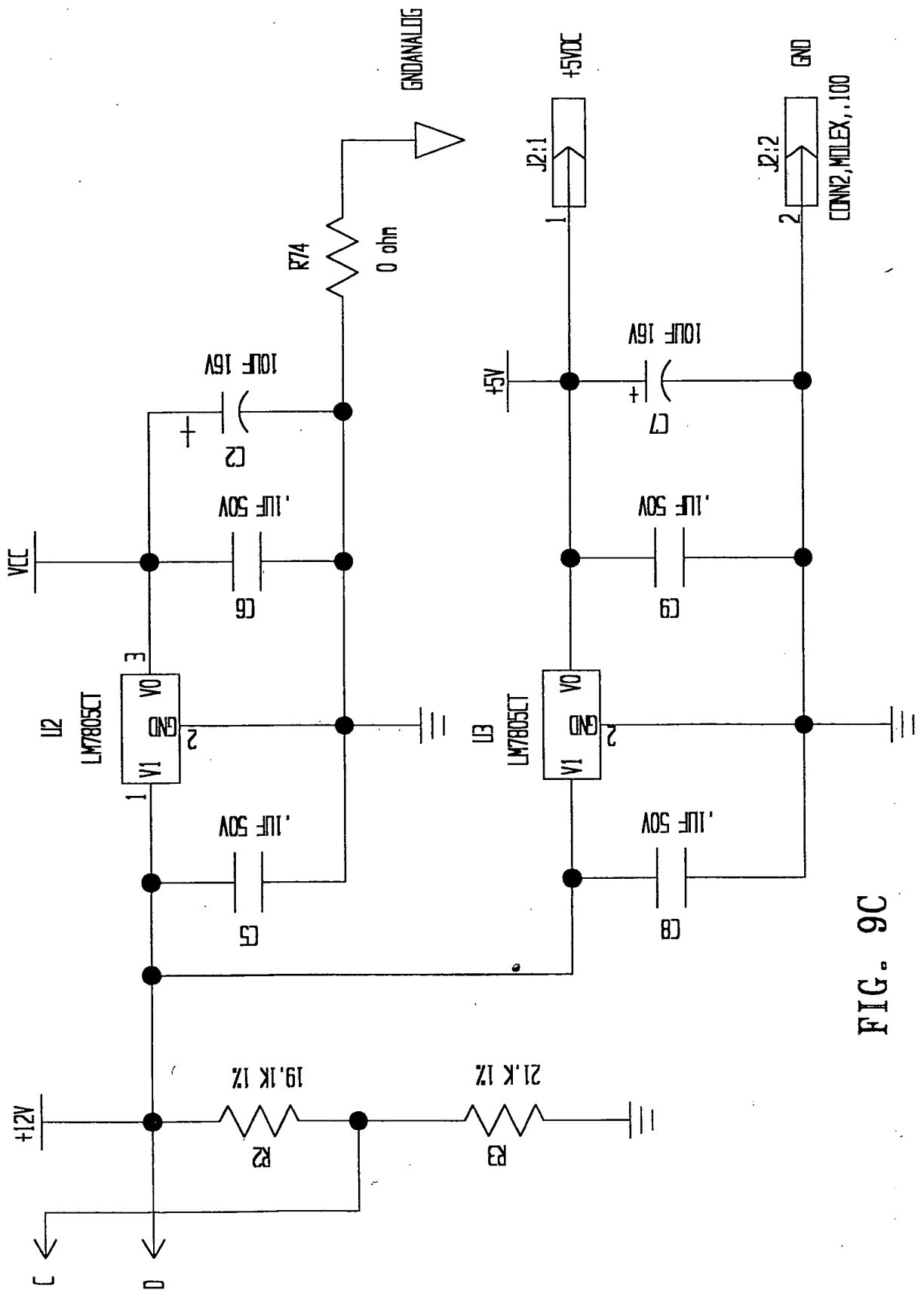


FIG. 9C

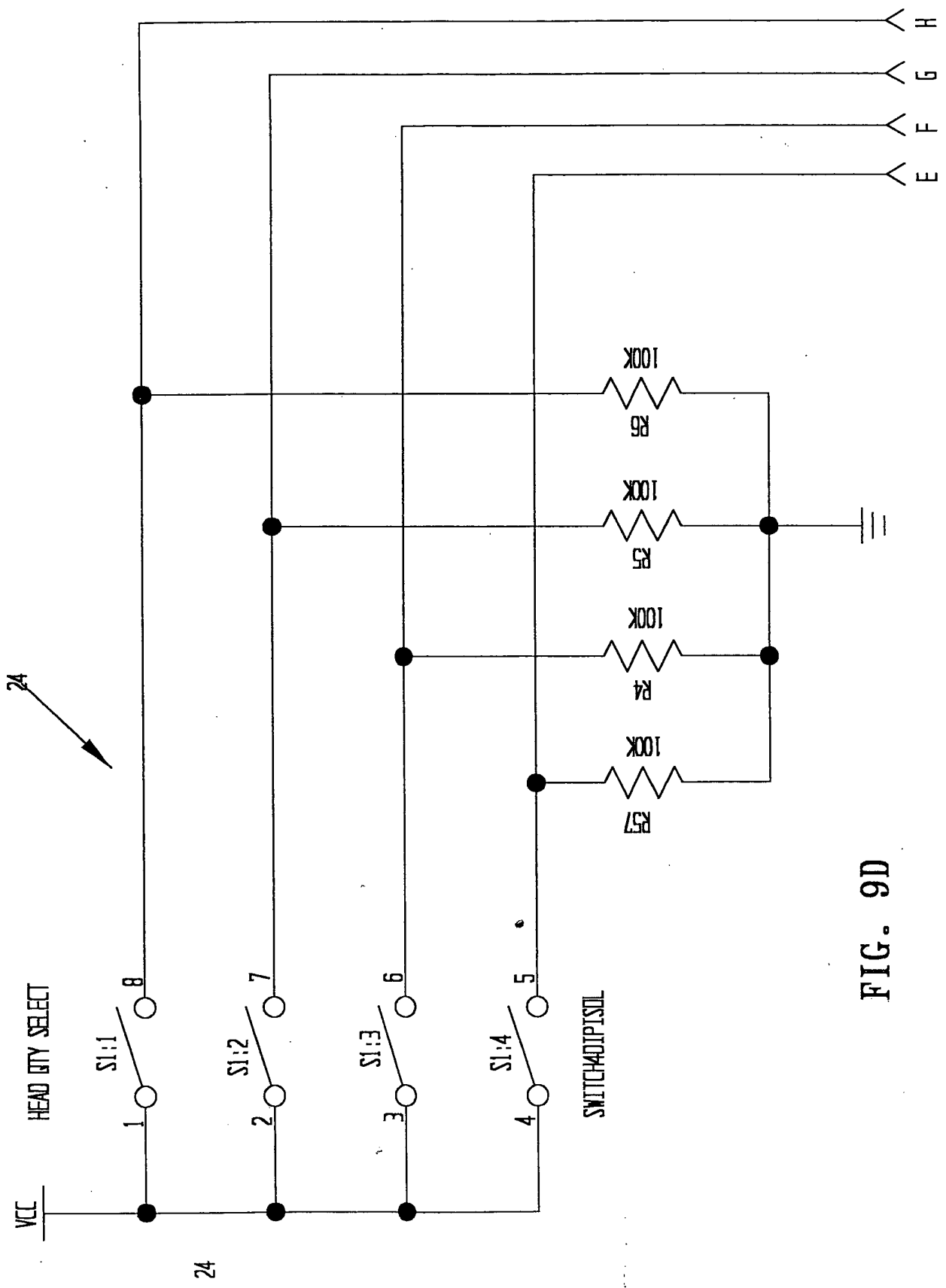


FIG. 9D

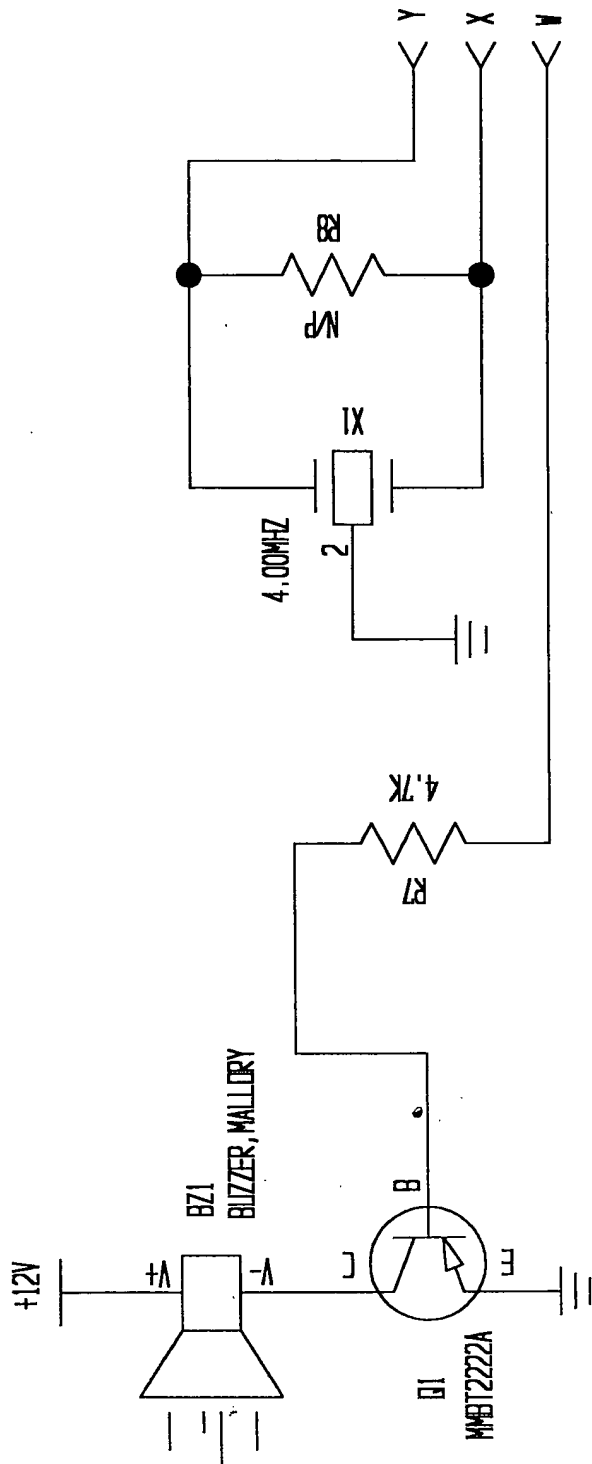


FIG. 9E

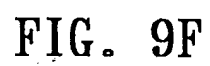


FIG. 9F

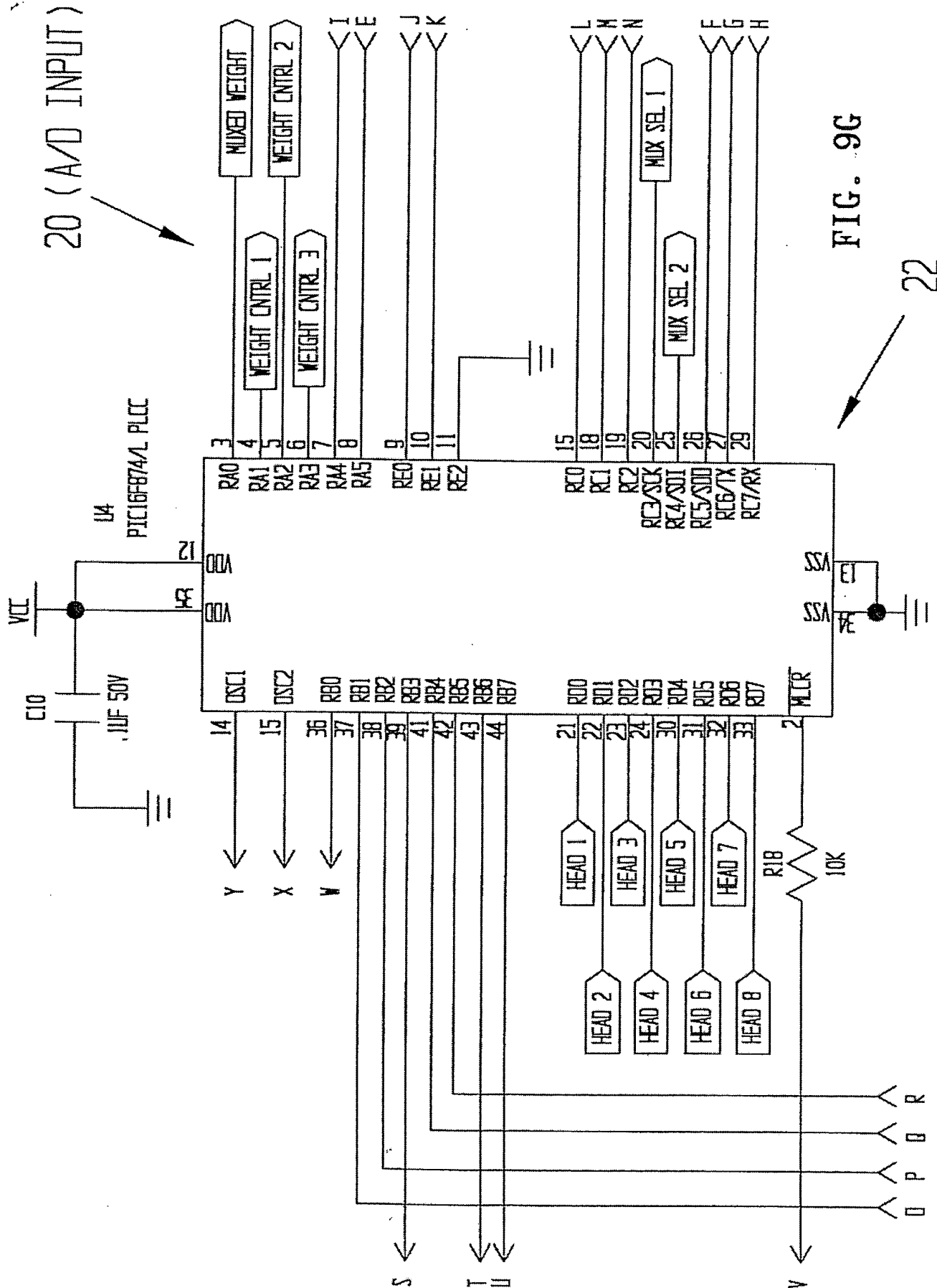


FIG. 9C

22

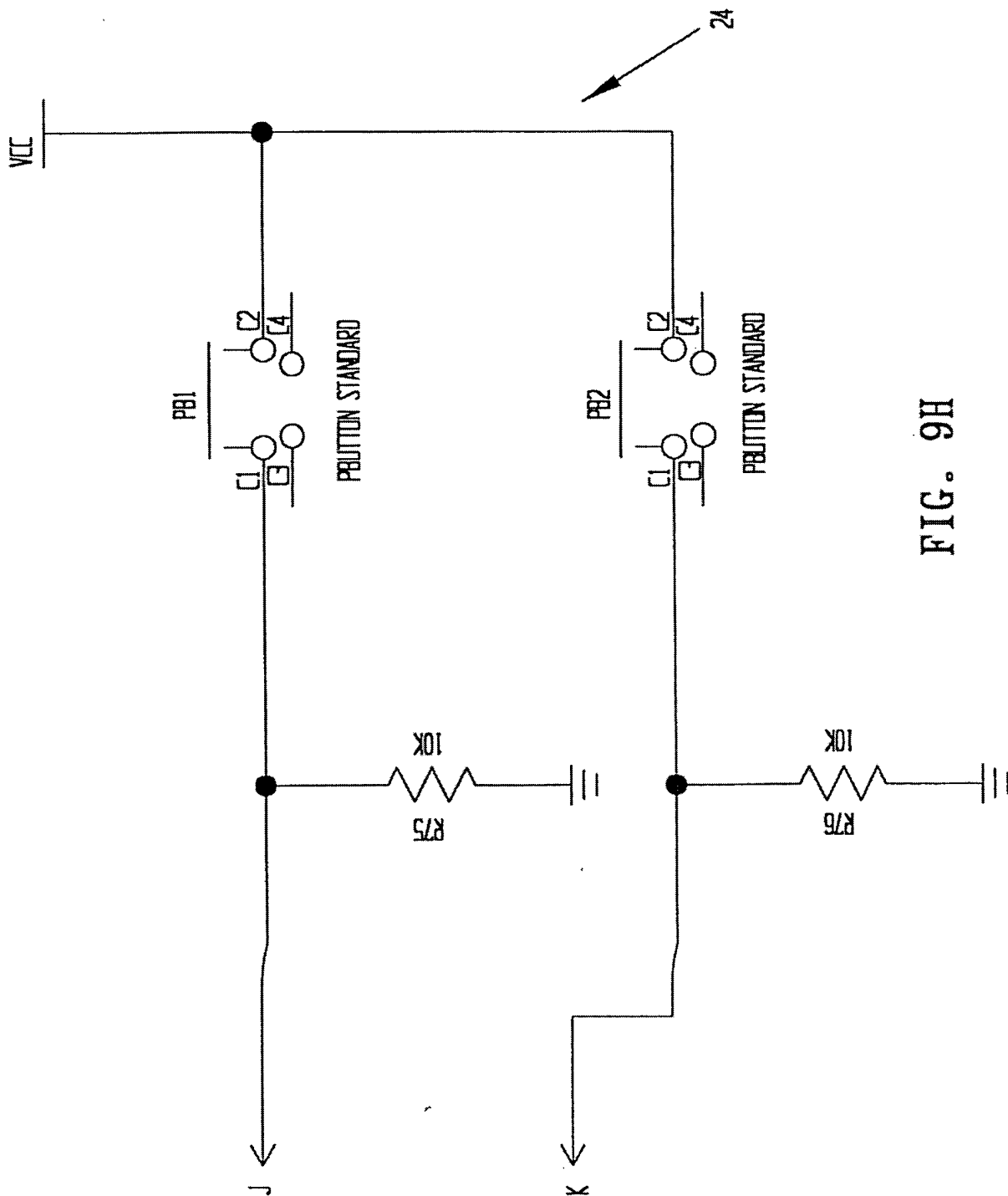


FIG. 9H

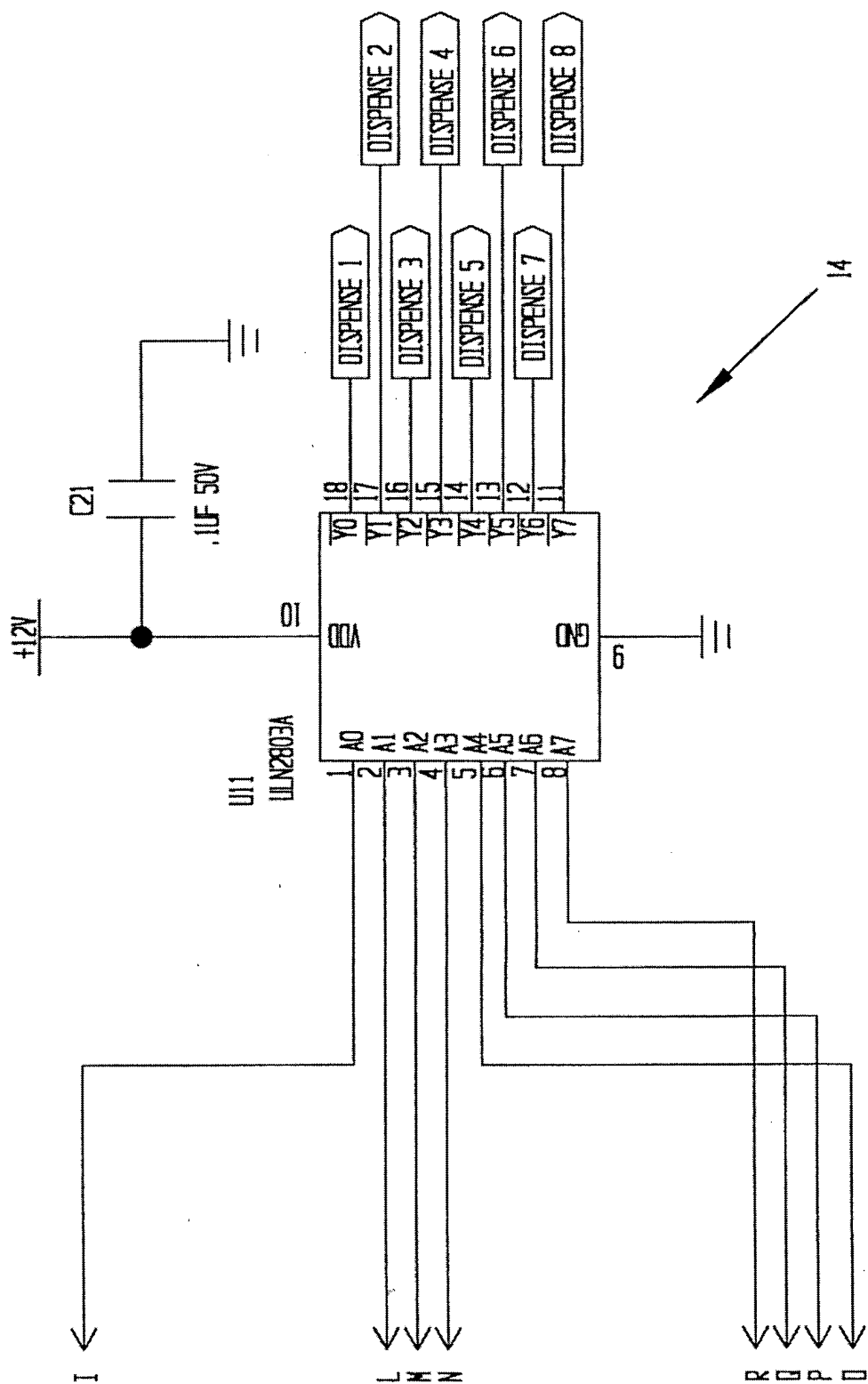


FIG. 9I

FIG. 9J-1
FIG. 9J-2
FIG. 9J-3
FIG. 9J-4
FIG. 9J-5



FIG. 9J

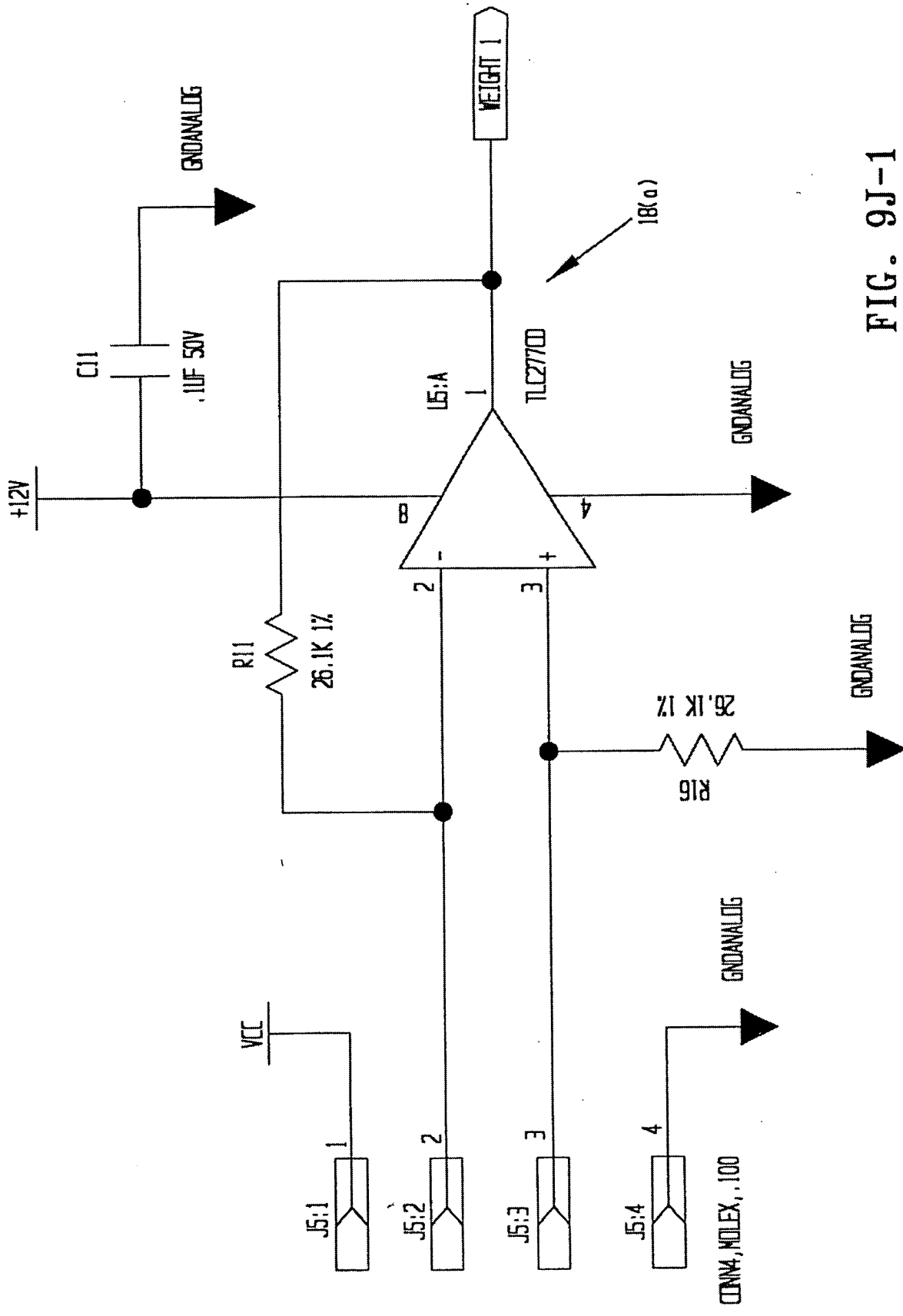


FIG. 9J-1

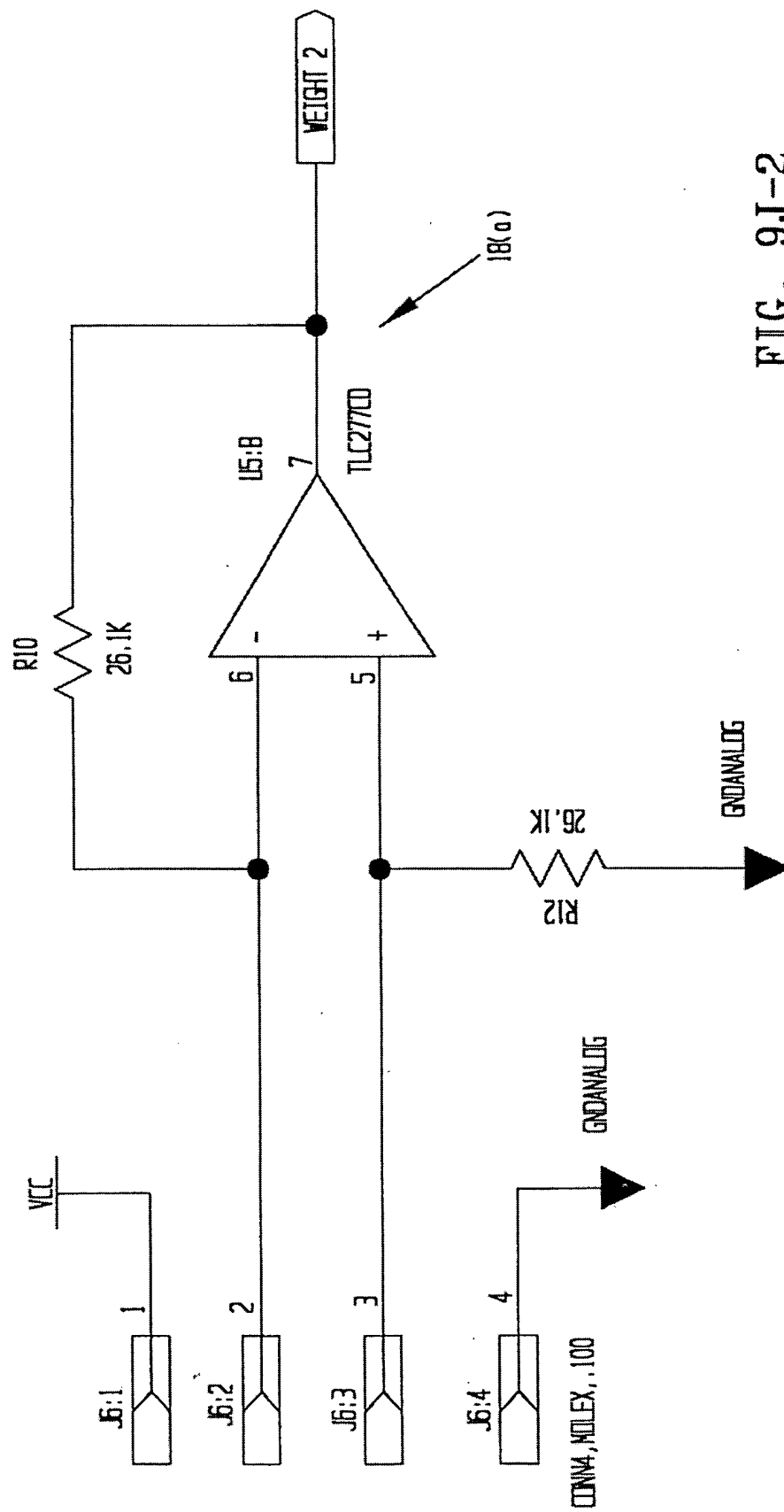


FIG. 9J-2

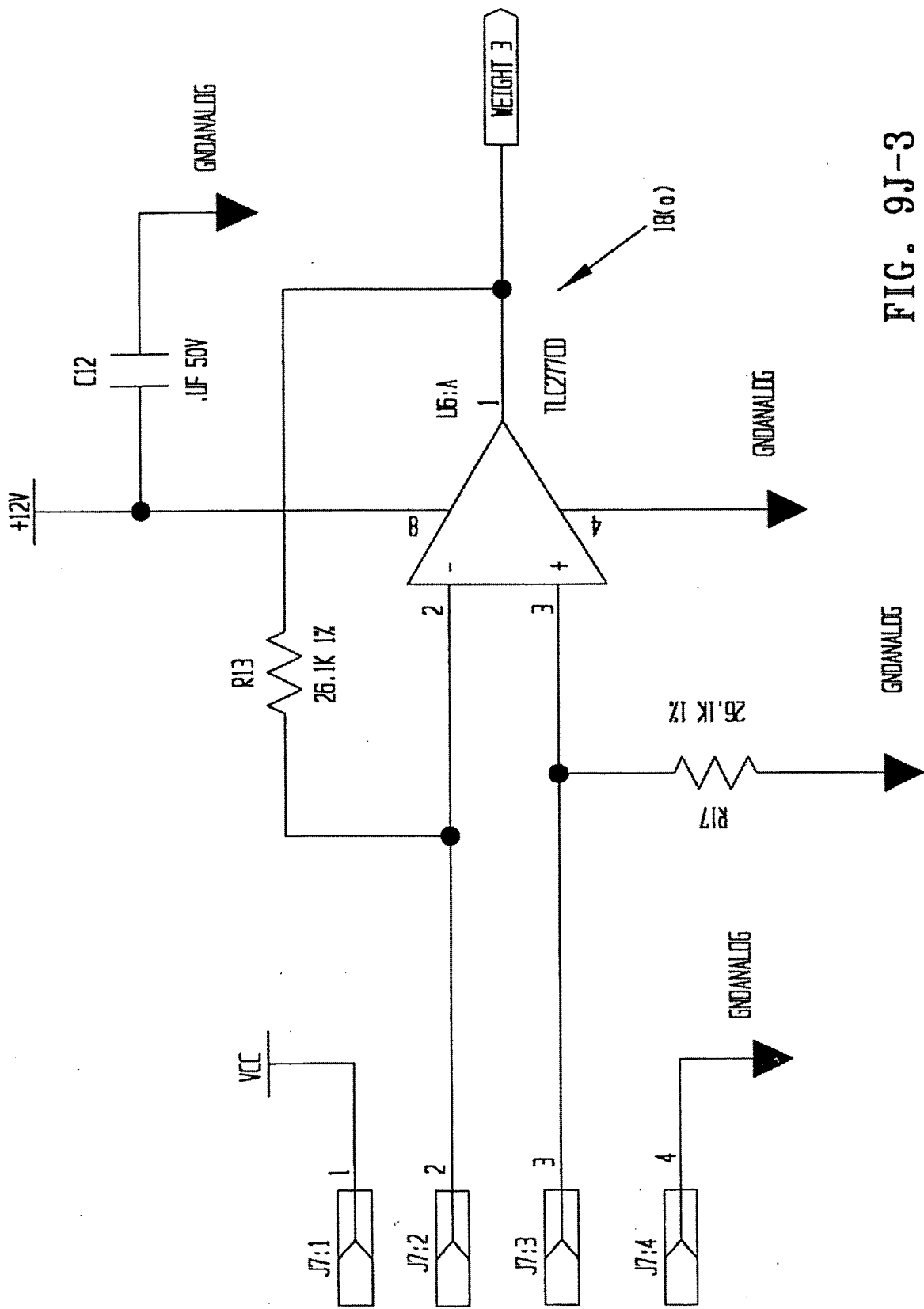


FIG. 9J-3

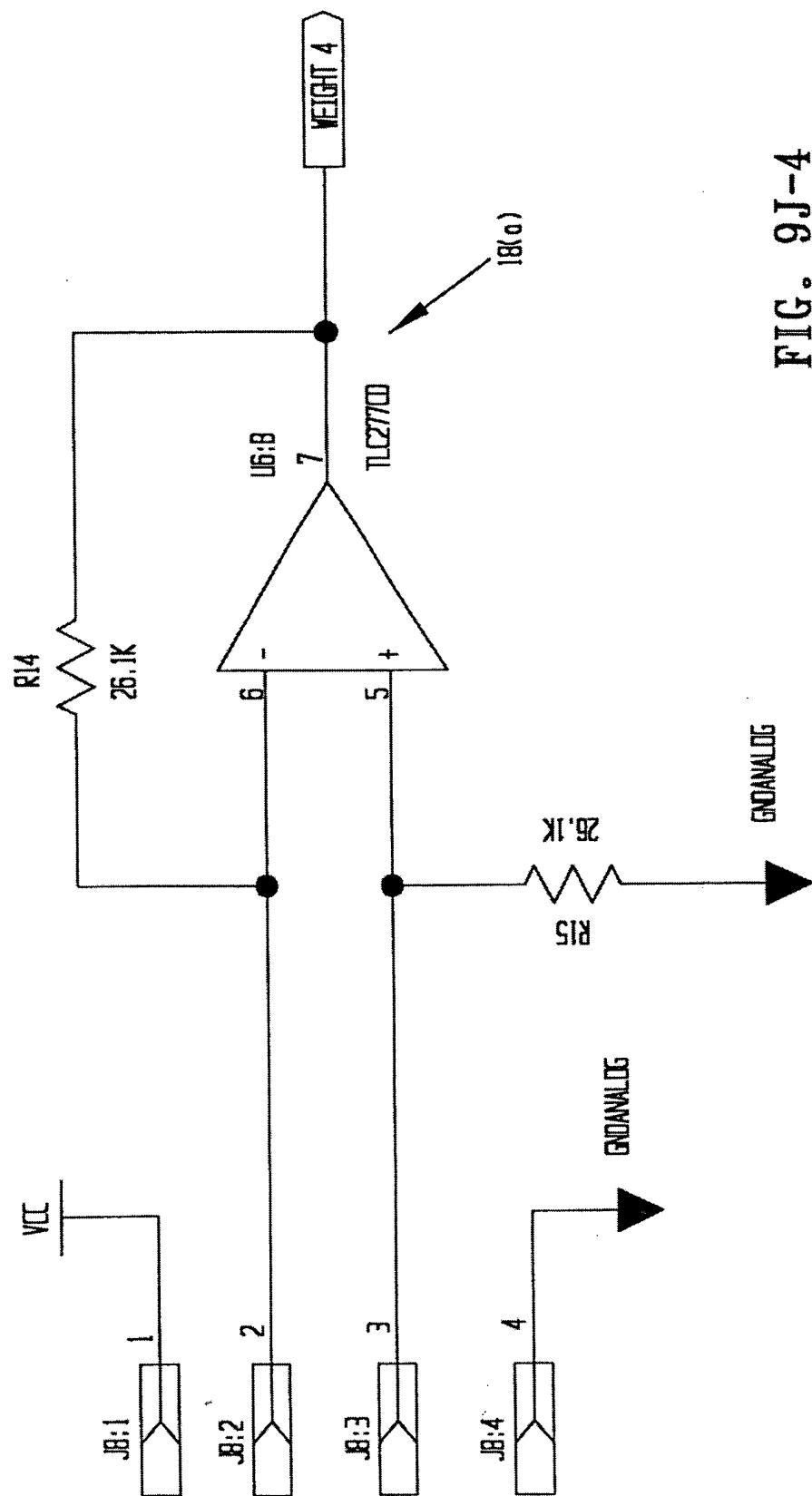


FIG. 9J-4

SPARE GATE TABLE		
LAST USED	NOT USED	SPARE GATES
BZ1		
C22		
D18	D5, D6, D7, D8, D10	
J36	J4	
K8		
L1		
MOV1		
PB2		
Q1		
R76		
S1		
U15		U10:B, U10:C, U10:D
X1		

POWER TABLE							
REF DES	DEVICE (TYPE)	PACKAGE	VCC	GND	+5V	GND A	+12V
U1	LM2576,STAG	TU-220,SPIN		3,5			
U2	LM7805CT	TU-220(LP)	3	2			1
U3	LM7805CT	PLCC44 PIC16F874		2	3		1
U4	PIC16F874/L PLCC	SO8	12,35	11,13,34			
U5	TLC277CD	SO8				4	8
U6	TLC277CD	SO8				4	8
U7	TLC277CD	SO8				4	8
U8	TLC277CD	SO16				4	8
U9	CD4051	SO14	16			6,7,8	
U10	LM324M	DIP18				11	4
U11	ULN2803A	SO16		9			10
U12	4052	SO16	16	7,8,6			
U13	4052	SO16	16	7,8,6			
U14	4052	SO16	16	7,8,6			
U15	4052	SO16	16	7,8,6			

FIG. 9J-5

FIG. 9K-1
FIG. 9K-2
FIG. 9K-3
FIG. 9K-4
FIG. 9K-5
FIG. 9K-6



FIG. 9K

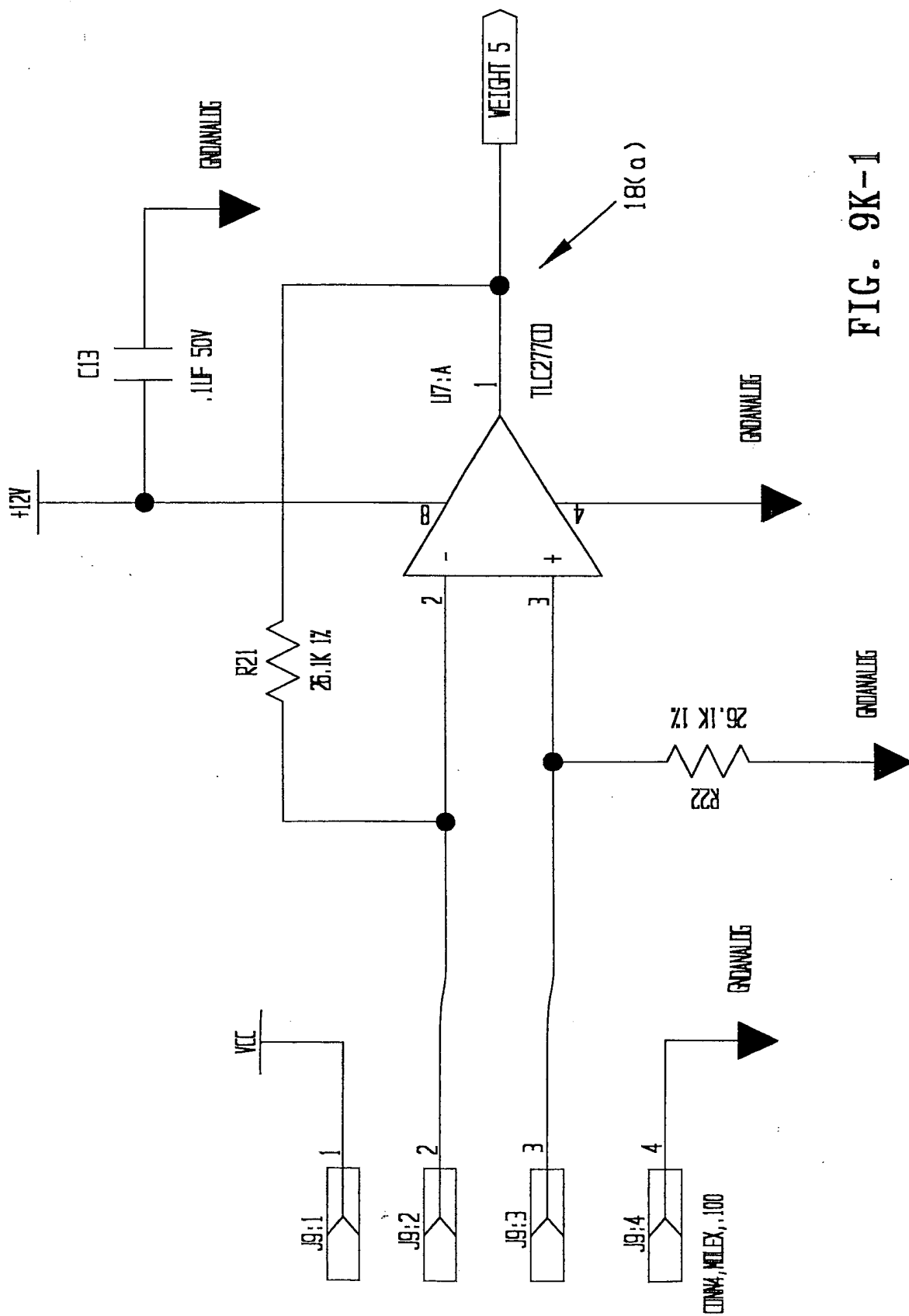


FIG. 9K-1

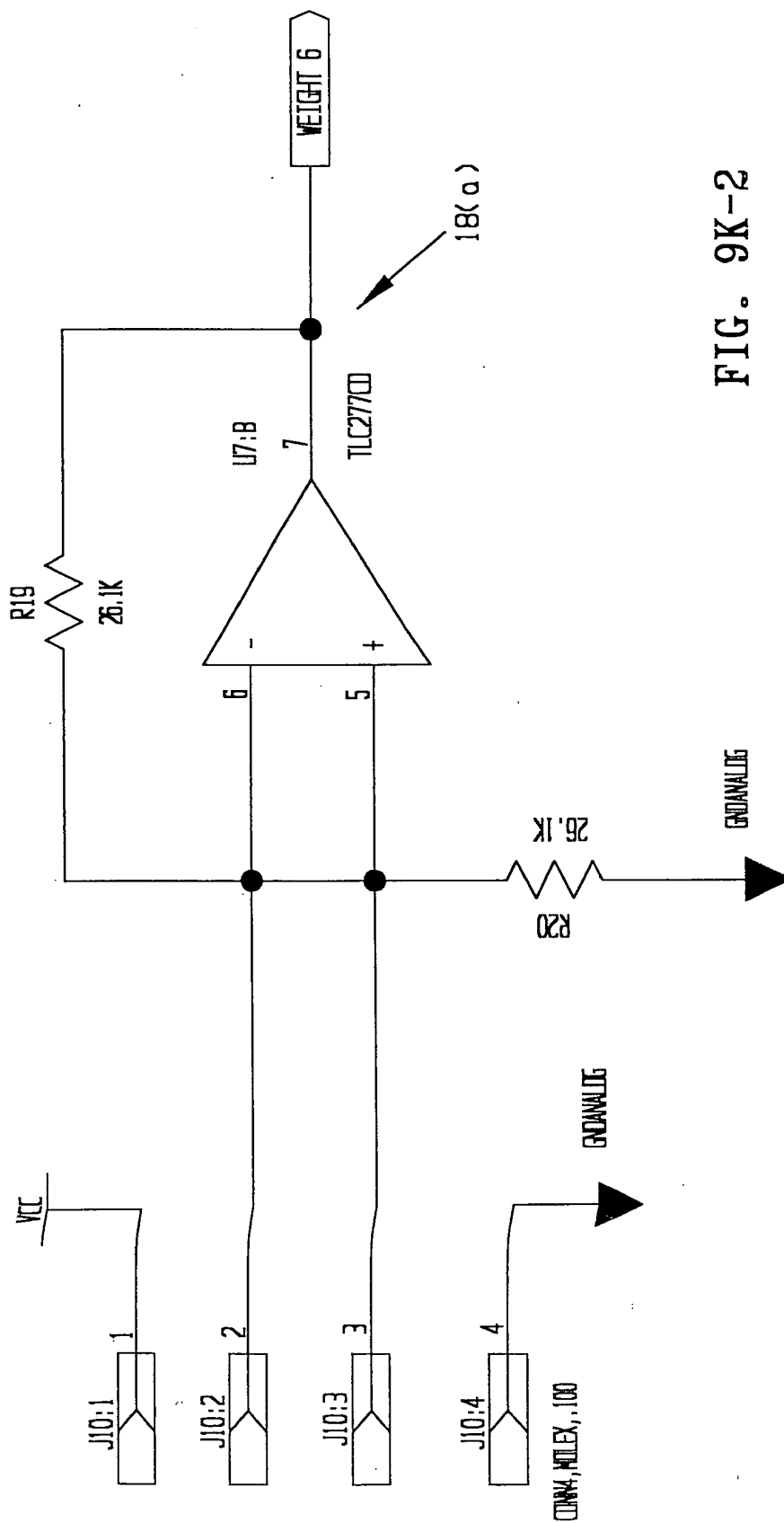


FIG. 9K-2

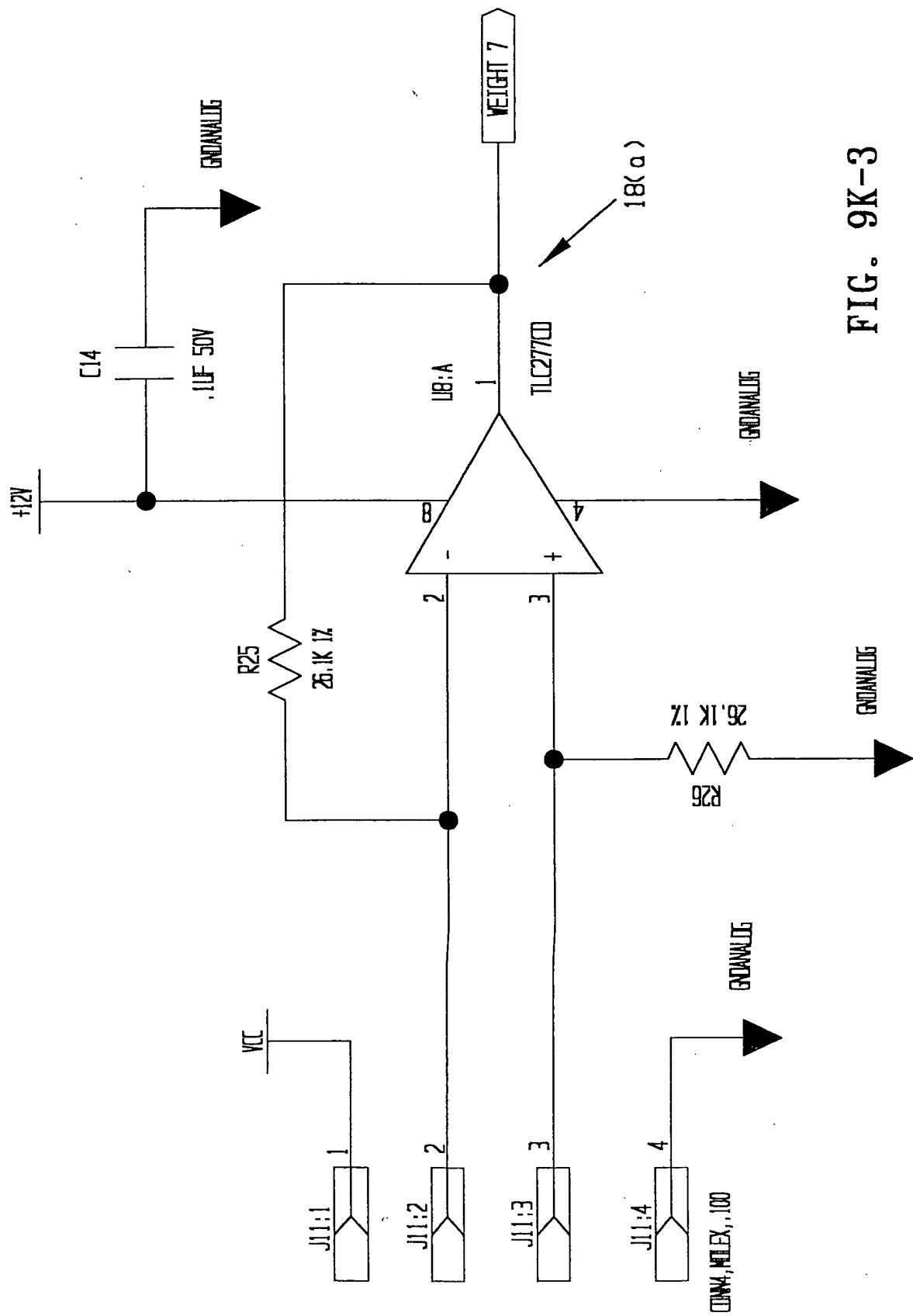
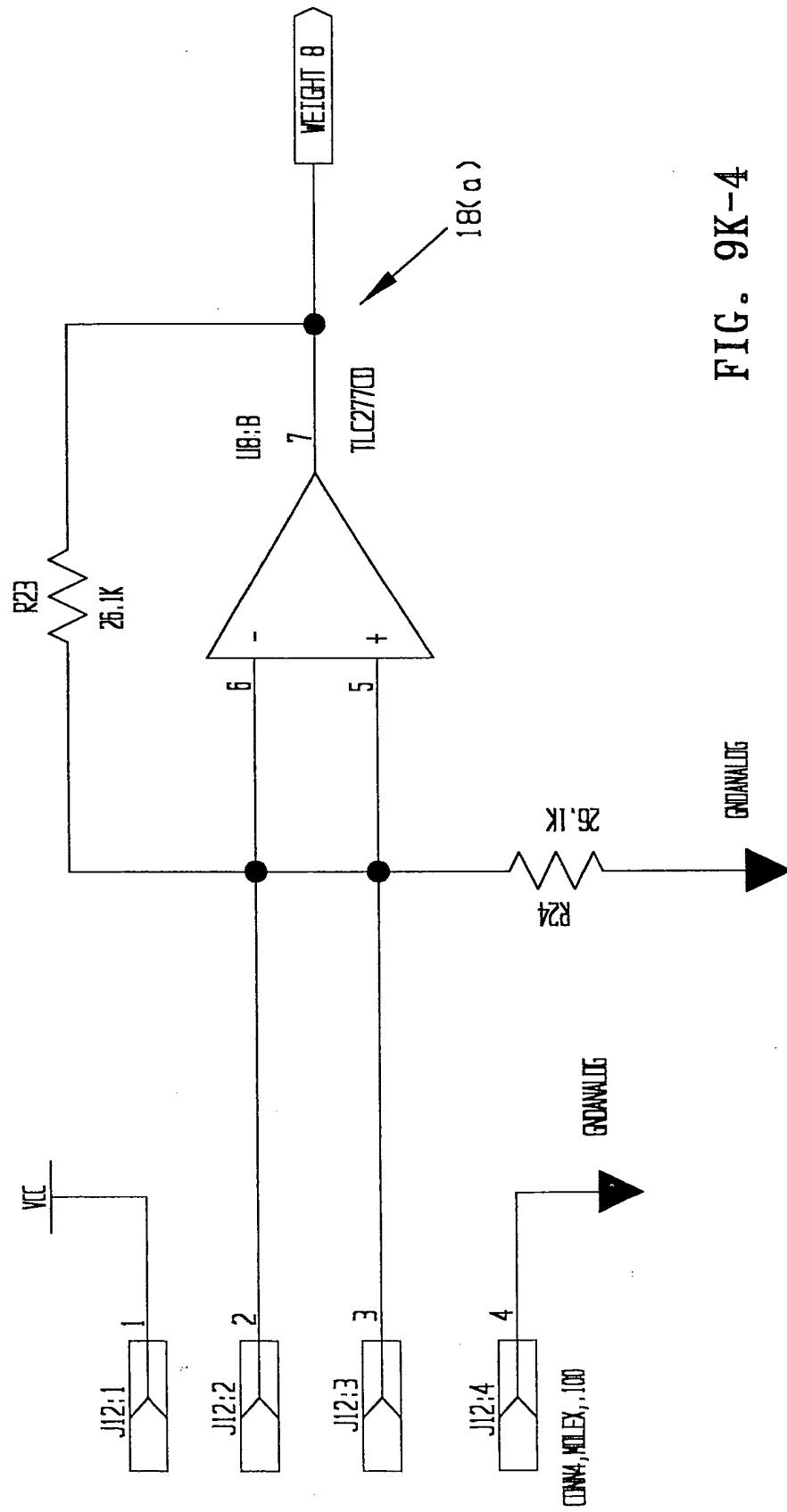


FIG. 9K-3



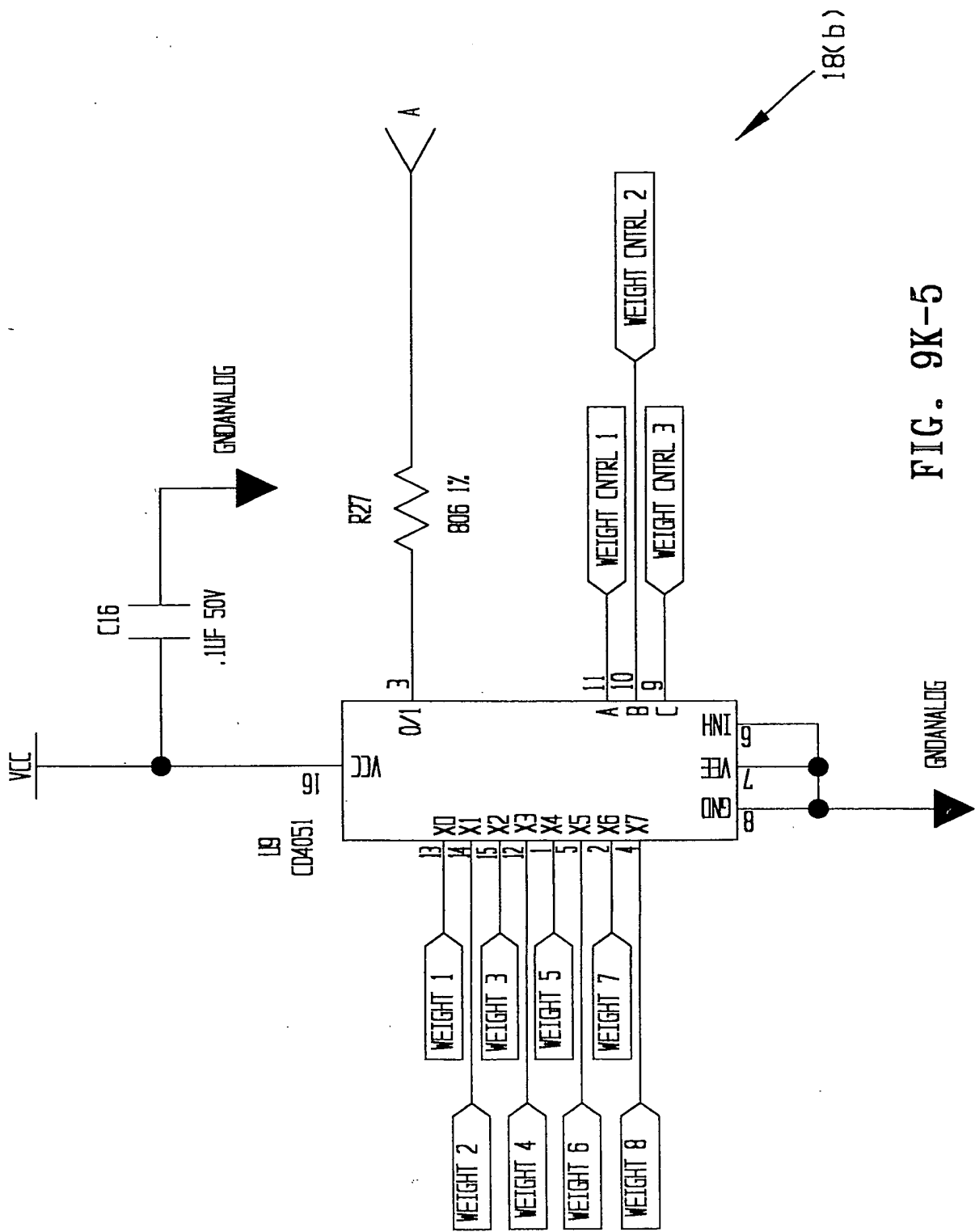


FIG. 9K-5

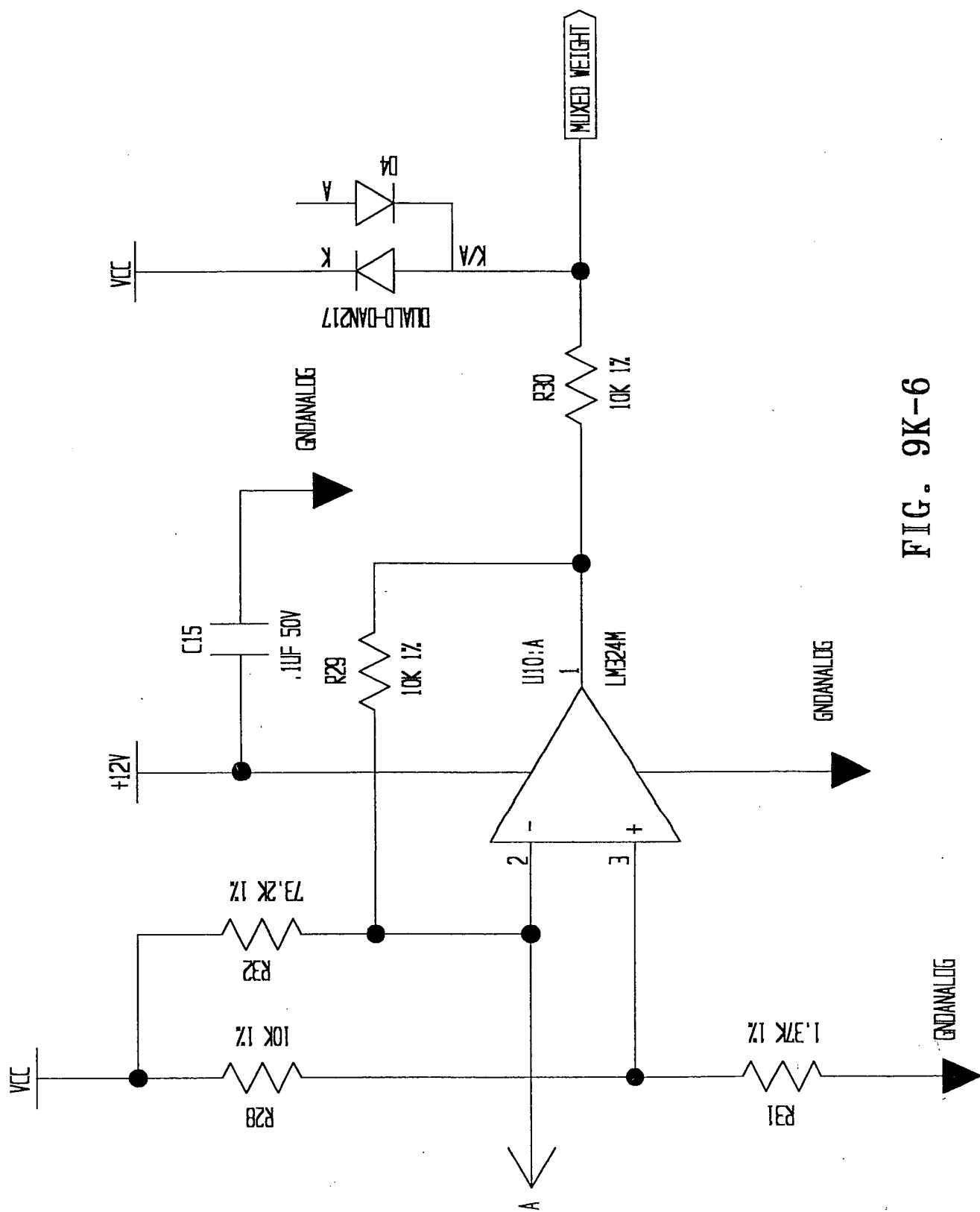


FIG. 9K-6

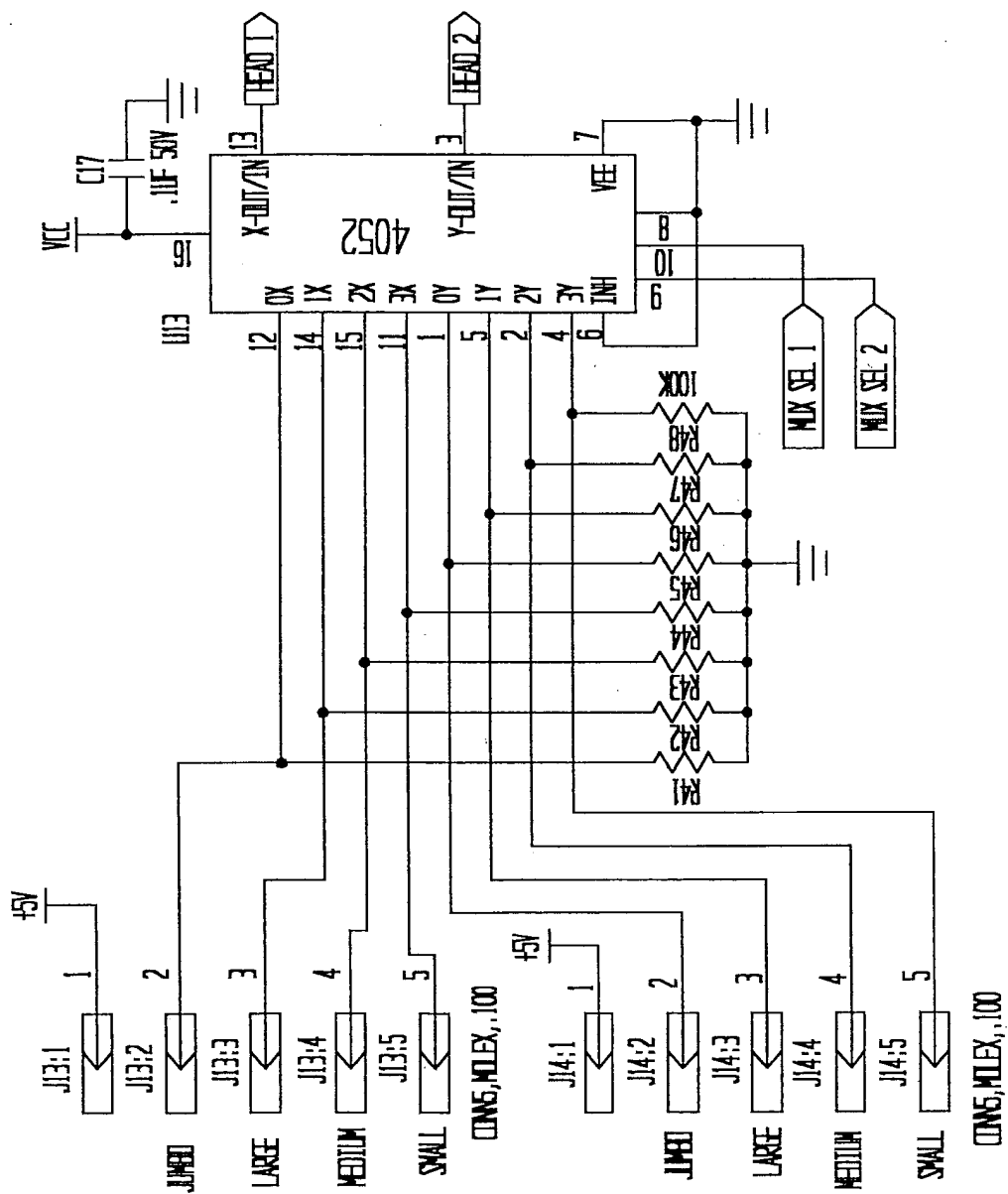


FIG. 9L

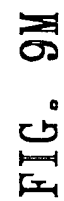


FIG. 9M

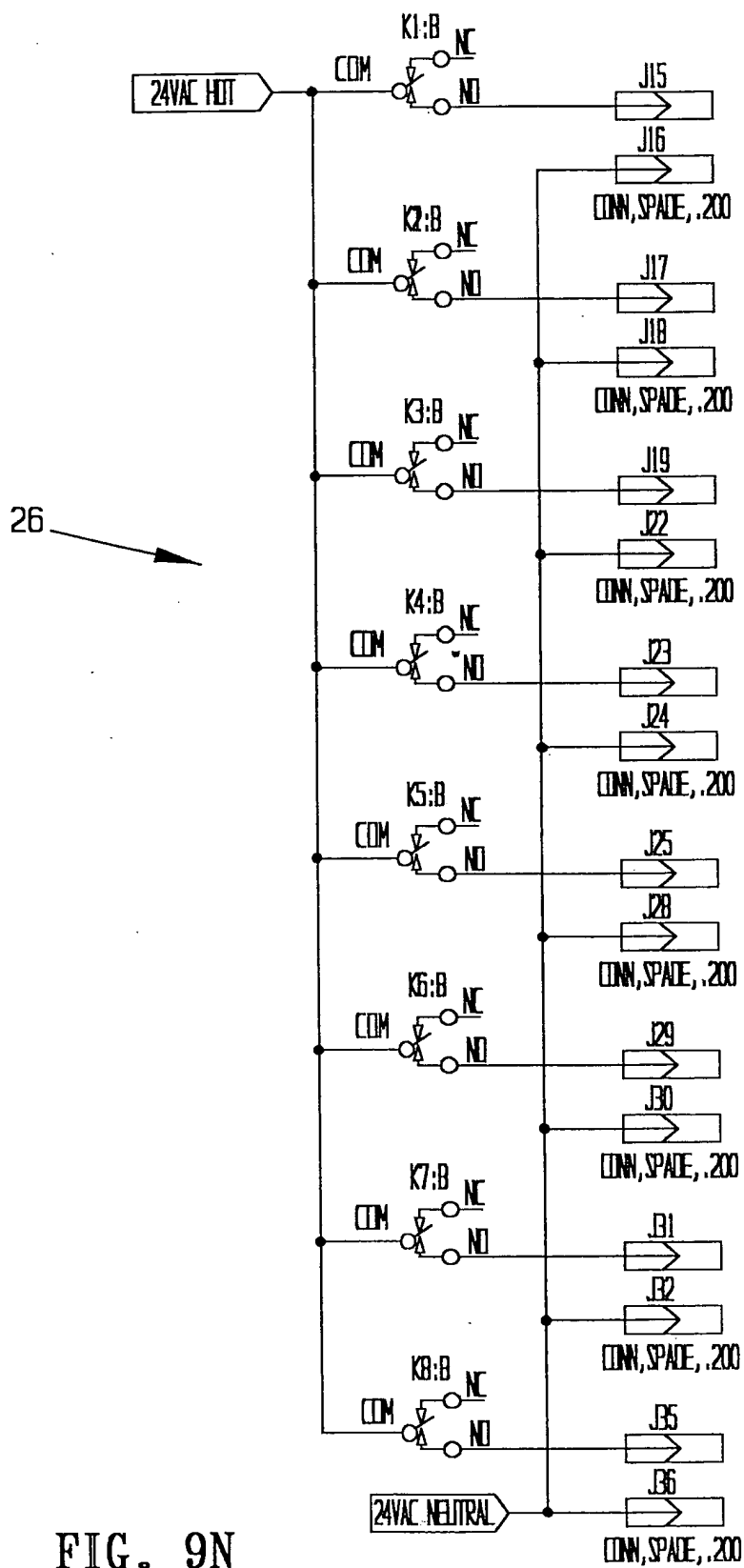


FIG. 9N

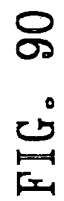


FIG. 90

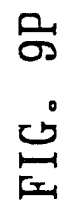


FIG. 9P

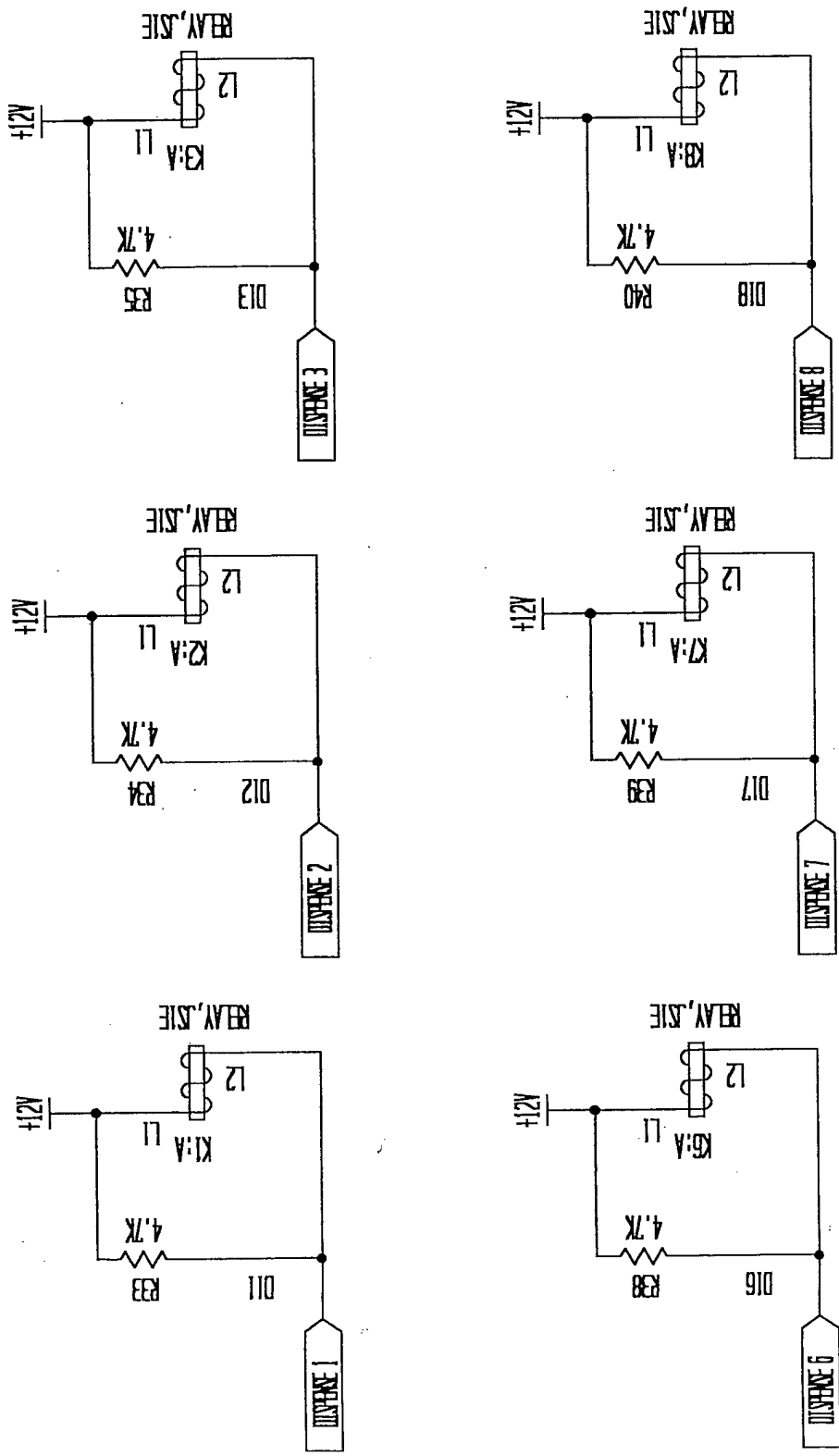


FIG. 9Q

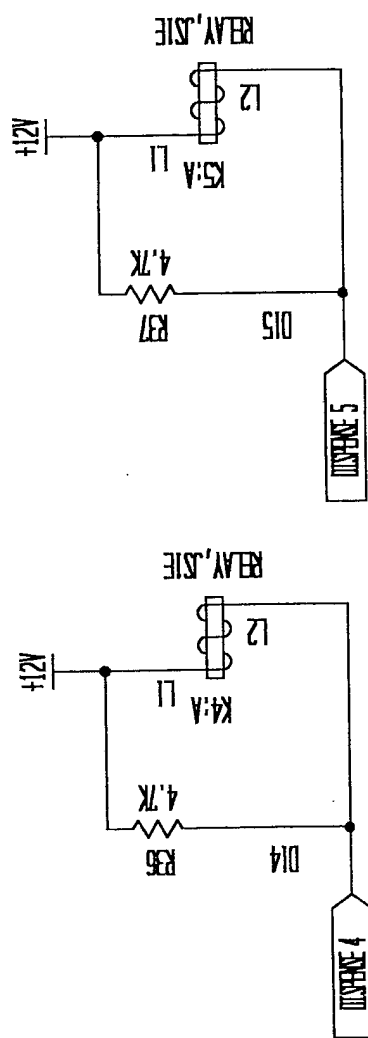


FIG. 9R

FIG. 10A
FIG. 10B
FIG. 10C
FIG. 10D
FIG. 10E
FIG. 10F

FIG. 10

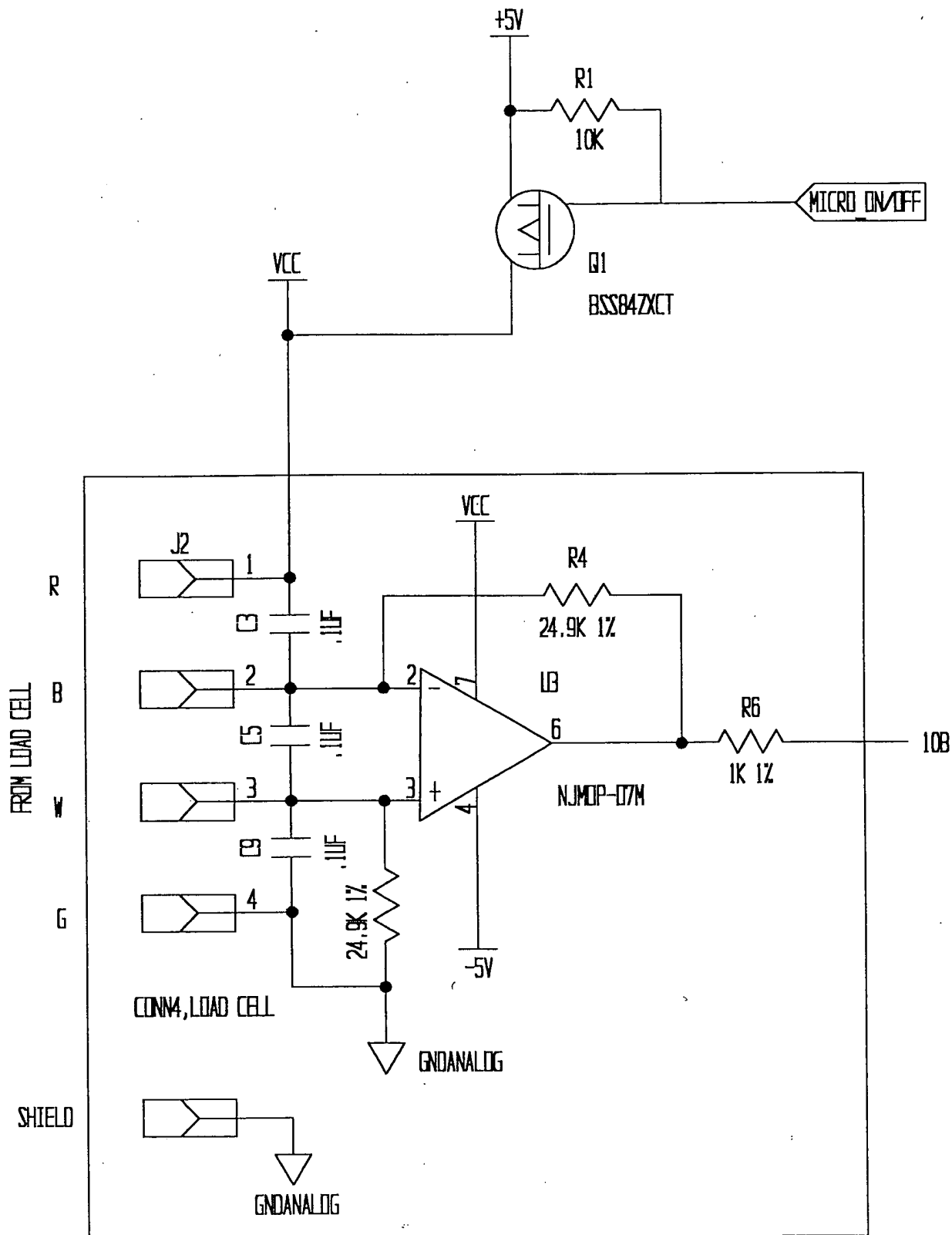


FIG. 10A

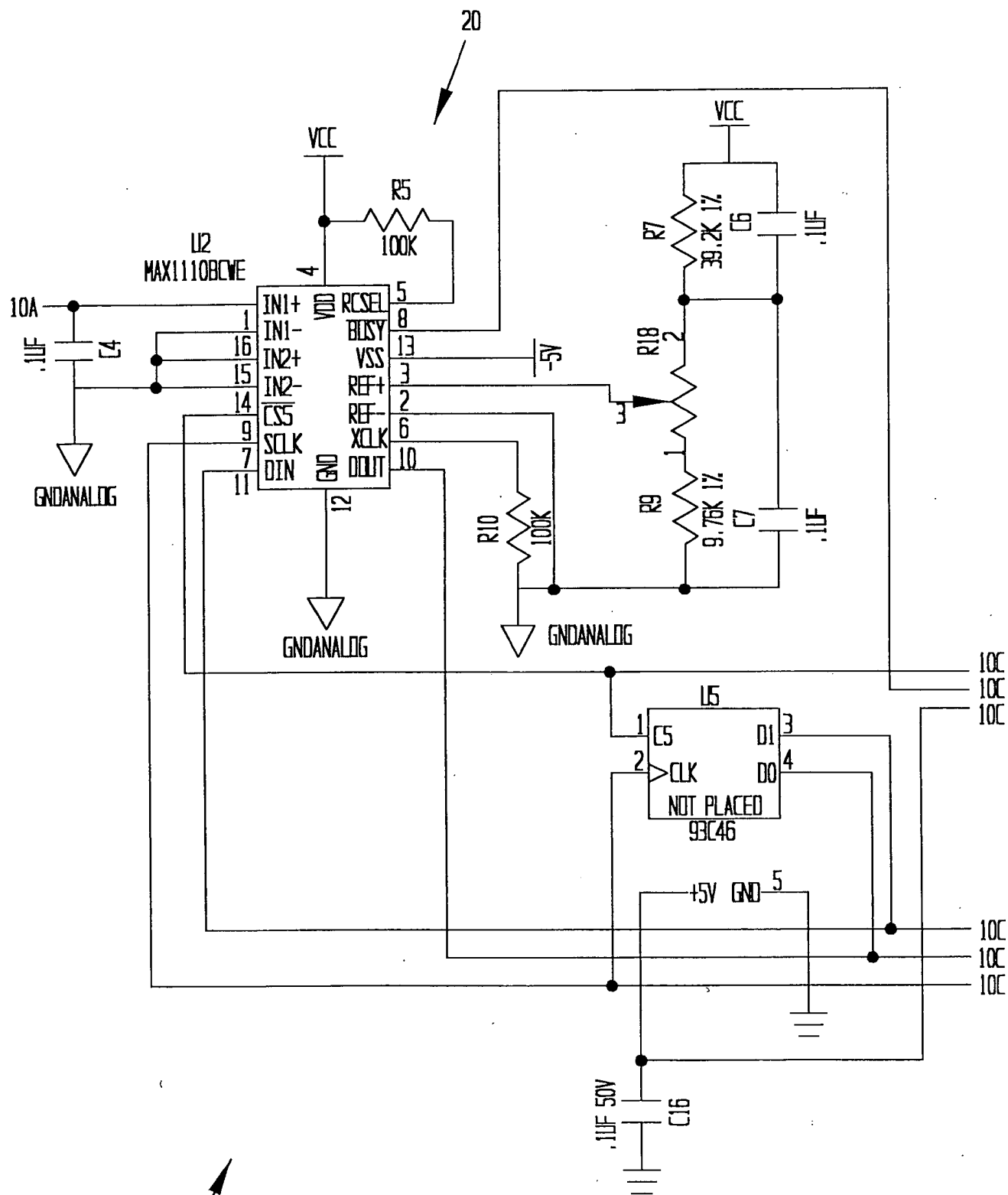


FIG. 10B

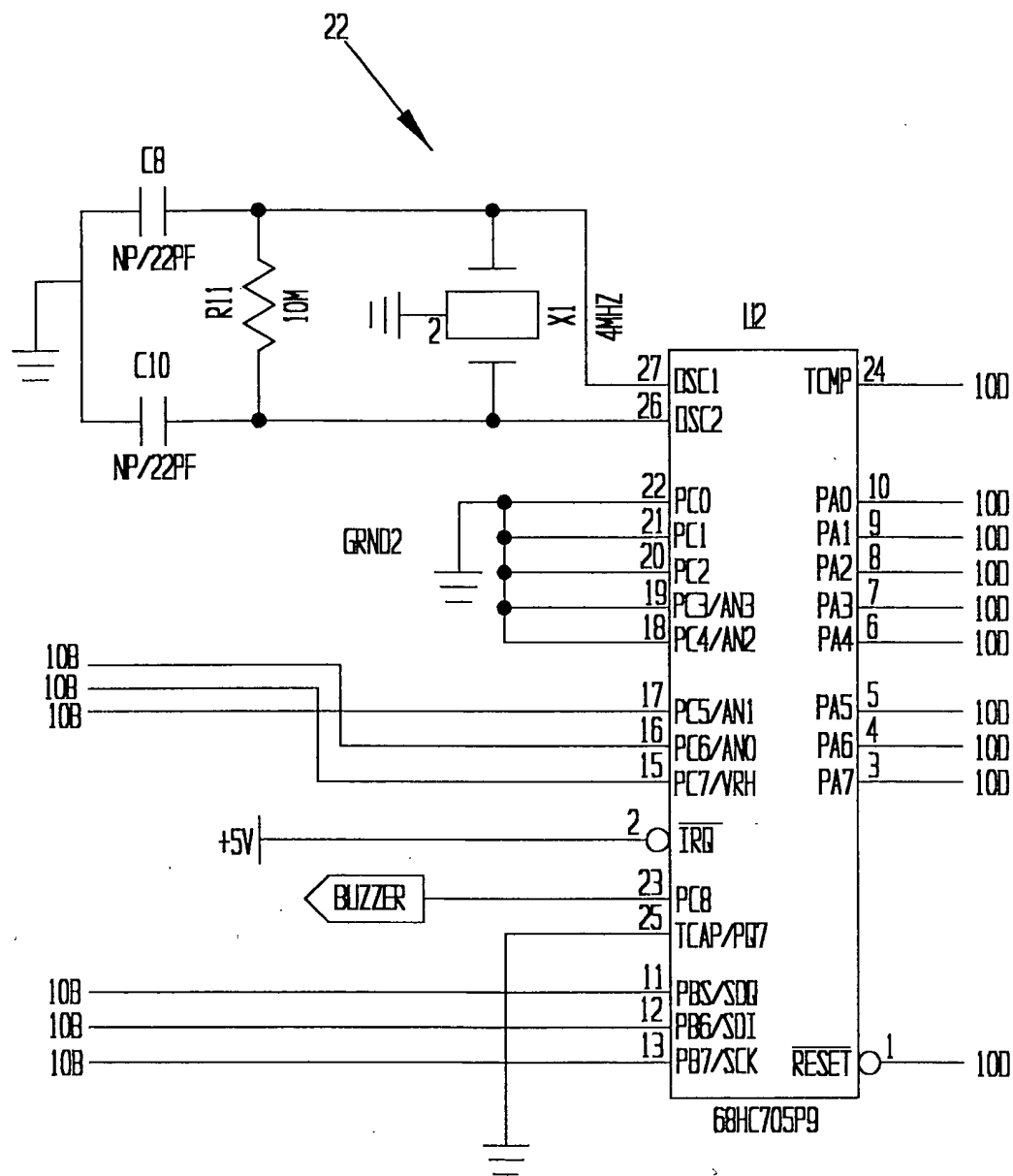


FIG. 10C

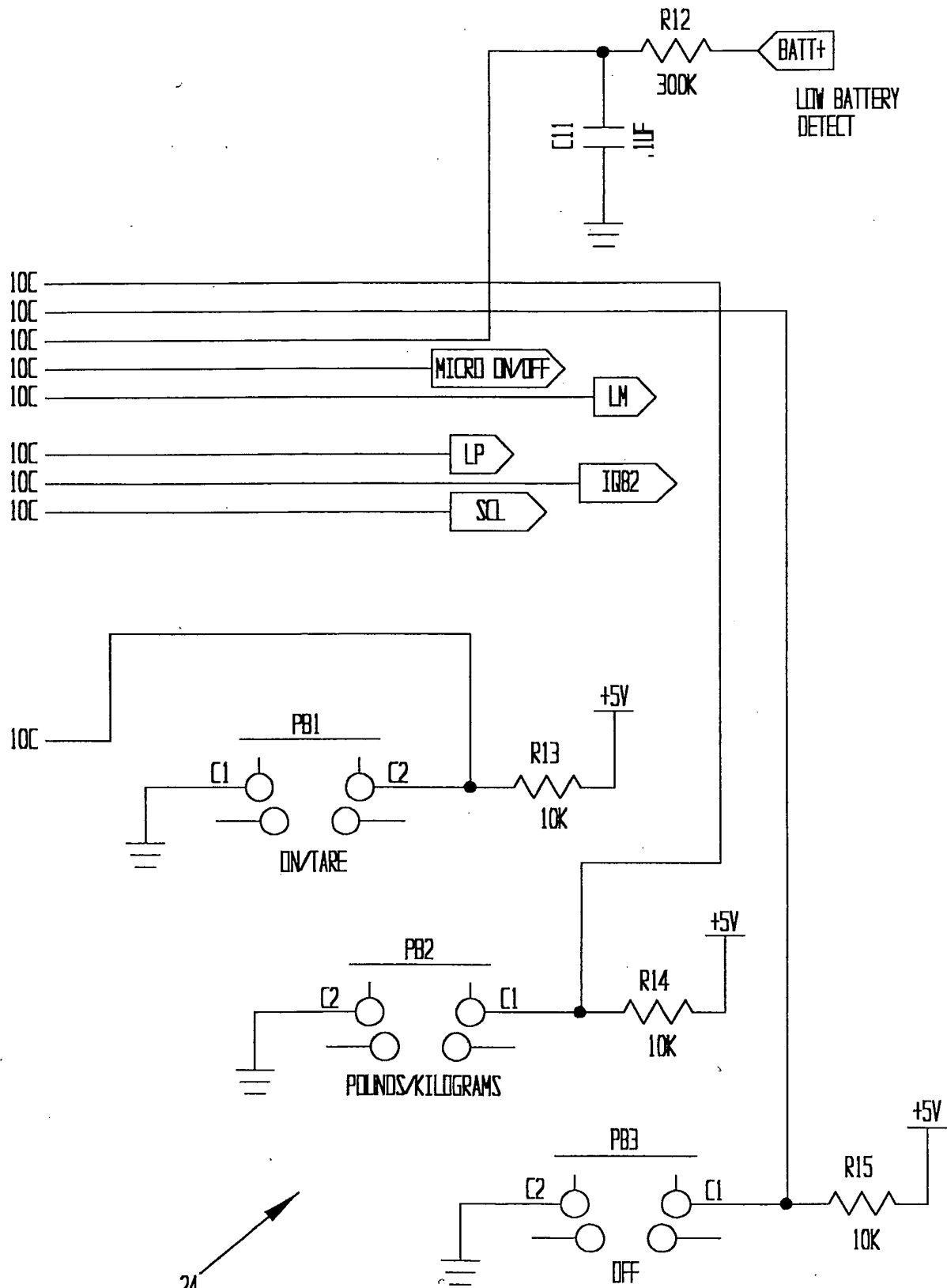


FIG. 10D

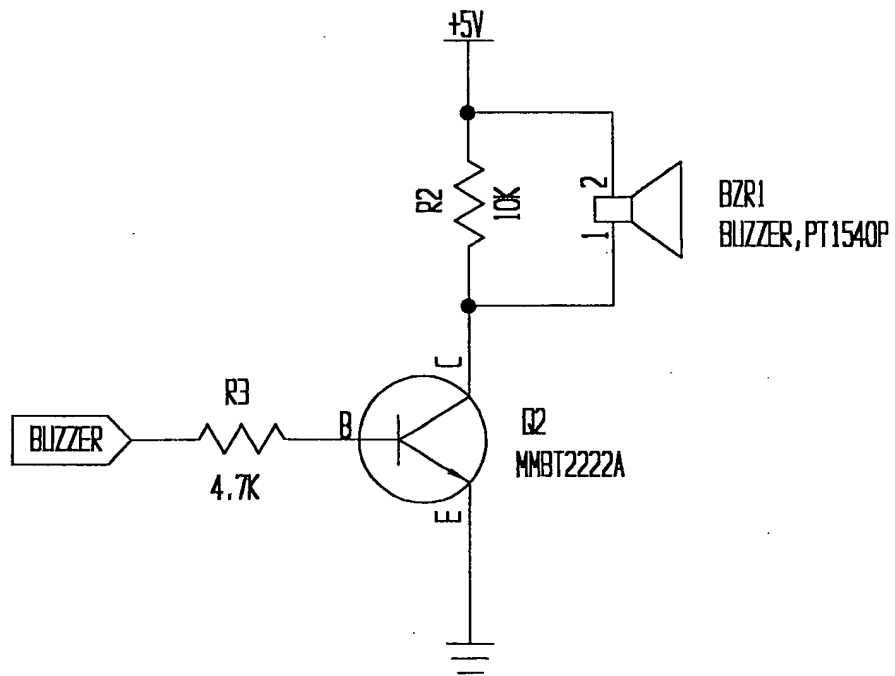
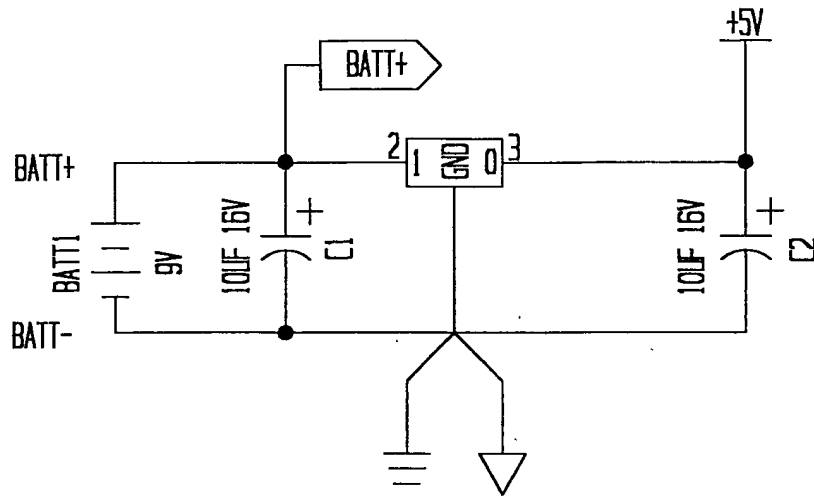


FIG. 10E

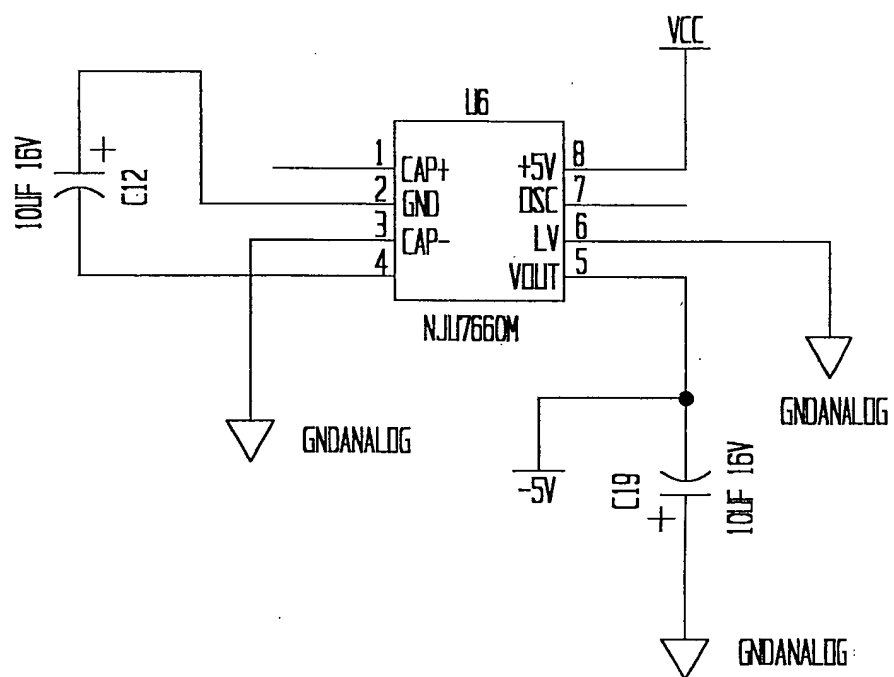
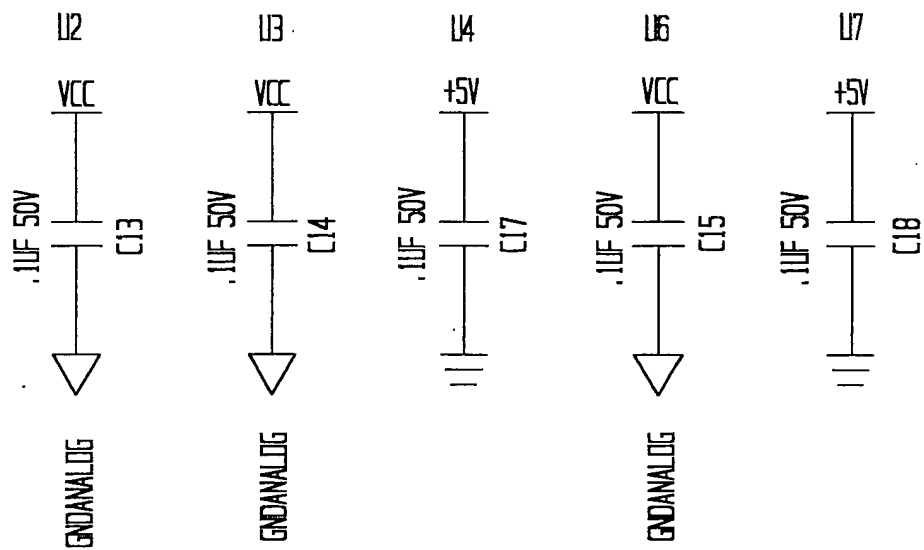


FIG. 10F

FIG. 11A
FIG. 11B
FIG. 11C

FIG. 11

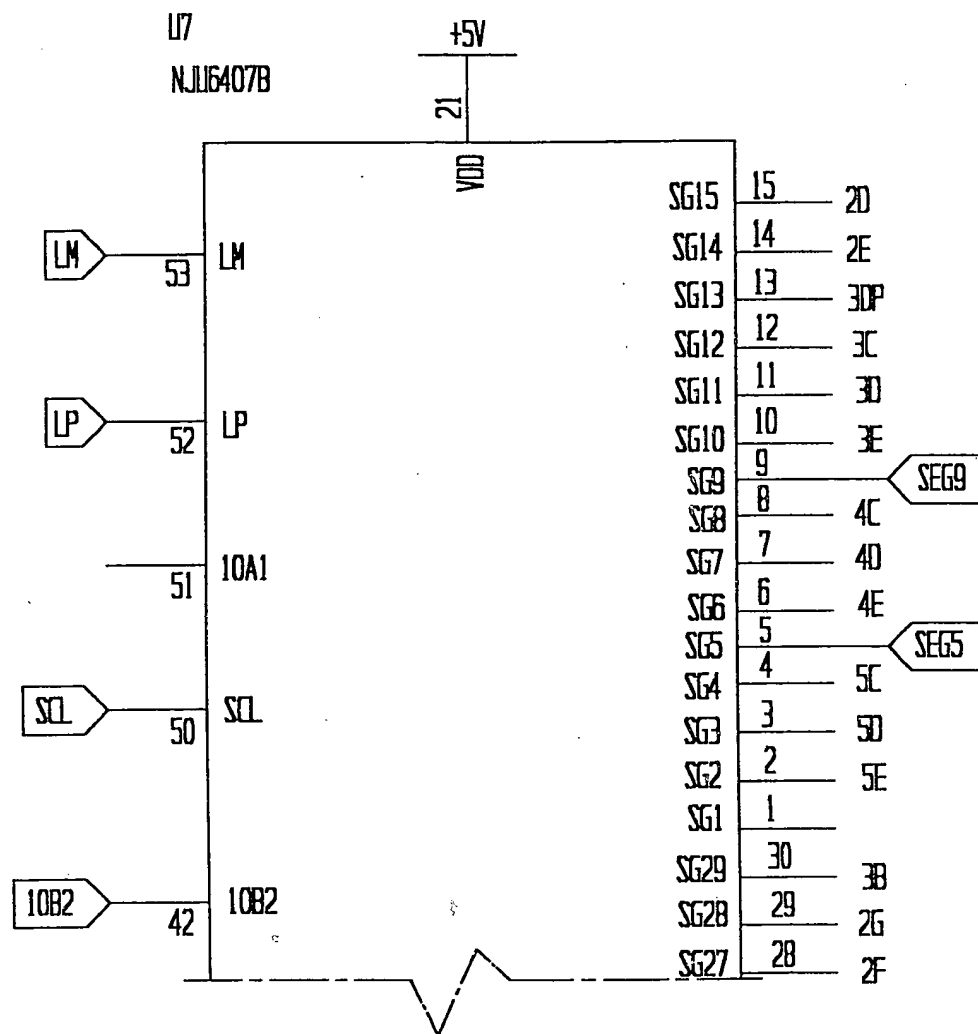


FIG. 11A

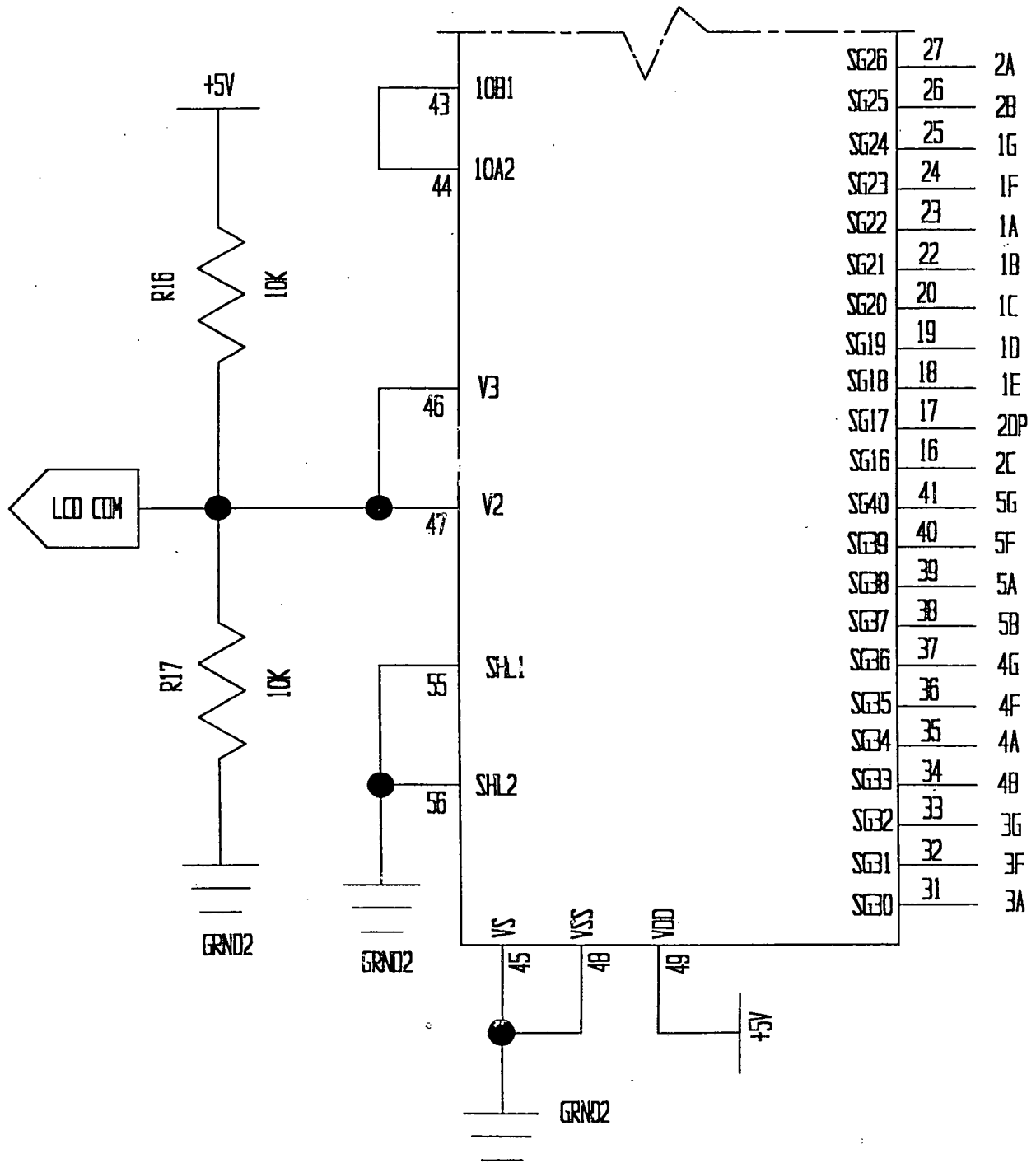


FIG. 11B

FIG. 12C

